MADURAI KAMARAJ UNIVERSITY

TWENTY FIRST
ANNUAL REPORT

1986

VOLUME 1

5512

MADURAI KAMARAJ UNIVERSITY

SENTAMIL COLLEGE
5512
MADURAI

TWENTYFIRST ANNUAL REPORT

1986

PANDYAN LIBRARY
SENTHAMIL COLLEGE
5512

VOLUME I

ANNUAL REPORT 1986

VOLUME I

Contents

Chapter			Page
I	A General Survey	—	1
II	University Departments and Affiliated Colleges	—	20
III	Research Activities	—	33
IV	Campus Amenities	—	48
V	Development Activities	—	51
VI	Finance	—	59
	Acknowledgement	—	66

VOLUME II

Appendices A to Z and AA to AD

MADURAI KAMARAJ UNIVERSITY

TWENTYFIRST ANNUAL REPORT

CHAPTER - I

GENERAL SURVEY

Introduction :

The University :

The Syndicate has great pleasure in submitting to the Senate the Annual Report of the University for the Calendar Year 1986 as required by Section 21 of the Madurai Kamaraj University Act 1965. The Tamil version of the report is also presented.

The total number of Affiliated and Approved Institutions in the University during the year is 115, as against 112 last year. Four more colleges were granted affiliation in Post-graduate courses raising the total number of Post-graduate colleges to 59. There are 41 departments of teaching and research in the University and the total number of students in the affiliated and approved colleges, the University Departments, the Institute of Correspondence Course and Continuing Education, Open University System and Evening College is 1,43,724.

The Vice-Chancellor :

Dr. S. Krishnaswamy continued as Vice-Chancellor of the University.

The Vice-Chancellor attended the Conference of the Executive Heads of the Association of the Commonwealth Universities at Penang from 18th to 23rd August, 1986. He also attended the meeting of the Council of the Asian Network for Biological Sciences in the capacity as its past President at Bangkok from 27th to 30th December, 1986.

Some of the other meetings attended by the Vice-Chancellor in India are detailed below:

International Symposium on Proteins in Food, Health and Industry at Loyola College, Madras on 7th January 1986.

Commonwealth Education conference at Bangalore from 2nd to 5th February, 1986.

Meeting of the Standing Committee of the Association of Indian Universities at Ooty on 6th April, 1986.

World Conference on Trade in Froglegs at Calcutta on 10th April 1986.

Meeting of the Standing Committee of the Association of Indian Universities at Madurai on 26th July, 1986.

National Symposium on Biosphere Reserves at Ooty from 24th to 26th September, 1986.

The Registrar :

Major P.P. Chinnadurai continued as Registrar of the University during the year.

He visited Malaysia during September, 1986 as a member of the delegation to study the details for starting Overseas Correspondence Course.

The Senate :

The Senate met twice during the year, on 27th March, 1986 and 22nd October, 1986.

The Syndicate :

The Syndicate met 14 times during the year. The Syndicate also considered and approved some routine items in-circulation.

The Academic Council :

The Academic Council met twice during the year on 7th March, 1986 and 19th September, 1986.

The Finance Committee :

The Finance Committee met on 27th February, 1986.

The Syndicate Committee on Discipline, Welfare and Residence of Students :

The Committee met 5 times during the year to enquire and decide on the cases of malpractice reported from the different examination centres. Cases of expulsion of students from the colleges were also considered.

The Boards of Studies :

There are 49 Boards of Studies in the University. During the year, the following Boards of Studies met and transacted business:

1. Business Administration (P.G.)
2. Chemistry (Pass) (twice)
3. Commerce (P.G.)
4. Economics (P.G.)
5. Economics (Pass and General)
6. English (P.G.) (twice)
7. English (Pass)
8. Engineering (three times)
9. Geography (twice)
10. Home Science
11. Hindi, Arabic and Urdu
12. Indian Music
13. Indian Culture
14. Indian Medicine
15. Mathematics and Statistics (Pass)
16. Philosophy, Logic & Psychology
17. Physics (P.G.)
18. Political Science
19. Physical Education
20. Rural Development Science
21, Social Work
22. Zoology (Pass) (twice)
23. Zoology (P.G.) (twice)

Expert Committees have met during the year to frame the syllabus for the following courses in the University and affiliated colleges:

1. B. Sc., General Science
2. B. Sc., Computer Science
3. Certificate Course in Spoken English
4. Certificate Course in Journalism and Mass Communication.
5. Certificate Course in Everyday Science and Family and Child Welfare.

An Expert committee has been appointed in the light of the discussions at the last meeting of the Senate to study the working of the Semester system adopted in the colleges.

Teaching :

New Department :

During the year the University has started a new department of Computer Science to undertake an M. Sc. Programme in Computer Science with financial assistance of the Defence Research and Development Organisation, New Delhi.

Institute of Spoken English :

The Madurai Kamaraj University has envisaged the Institute of Spoken English as an extension service to fulfil the needs of the people in different walks of life to equip themselves with communicative skills in the English language.

It principally aims at equipping people from different walks of life with specific communicative skills to meet their functional needs. In the process it also aims at improving the overall proficiency in the English language of those who opt to take up the following courses offered by this Institute.

i) Effective teaching of English in Primary schools.
ii) English proficiency for graduates seeking employment.
iii) Effective English communication for Housewives.
iv) Office Communication.
v) Course for Receptionists and telephone operators.
vi) Specific English course for travel agents and tourist guides.
vii) Restricted English for workers in transport service.
viii) English for caterers and waiters.
ix) Functional English for businessmen.

x) Summer course in Remedial English for School leavers.

xi) Workshop in Professional Communication in English.

New Courses :

The following new courses were introduced during the year :

University :

1. M.Sc. Course in Computer Science.
2. M.B.A., Course through Correspondence-cum-Residential Programme for Defence Service Officers.
3. Post Graduate Diploma Course in Entrepreneurial Development.
4. Post B.Sc., Diploma Course in Computer Science and Applications.
5. B.Sc., Course in General Science (in Evening College)
6. M. Phil. Courses in Telugu, Malayalam, Kannada and Saiva Siddhanta.
7. Certificate Course in Family and Child Welfare.
8. Certificate Course in Everyday Science.
9. Certificate Course in Journalism and Mass Communication.

Affiliated Colleges :

1. B.H.M.S. Course
2. B.Sc., Course in Computer Science
3. B.S.M. & S. Degree Course

New Colleges :

During the year, three new Colleges were granted affiliation as detailed below :

1. Government Homoeopathy Medical College,
   Tirumangalam,
   Madurai Dist.,
2. Sri Sarada College for Women,
   Melakkulam, Tirunelveli Dist.,
3. Government Siddha Medical College,
   Palni, Anna Dist.

M.Phil., Degree Courses :

Ten teachers under FIP and 226 fresh students were admitted to the M.Phil., Course in various disciplines in the University Departments. Further 96 teachers from affiliated colleges and 24 studends were admitted to M. Phil., degree course (Part-time) in Tamil, English, Chemistry, Commerce, Mathematics and Zoology in the affiliated colleges.

Library :

The University procured books and periodicals to the tune of Rs. 15.27 lakhs this year from out of University funds. The University Grants Commission has sanctioned a sum of Rs. 13.5 lakhs for purchase of books and journals under the VII Plan.

Seminars, Conferences, Workshops and Training Programme.

The various departments of the University Organised Conferences, Seminars, Workshops, Training courses at the National and International level during the year as detailed below :

Conferences	8
Seminars	25
Workshops	8
Training Courses.	13

More than 2270 persons participated in the programmes conducted with the assistance and collaboration of the U.G.C., D.S.T., the Govt. of Tamilnadu and other agencies.

A brief summary of some of the Seminars and Conferences are given below :

An All India Symposium on "Physiological Basis of Health" was held in the School of Biological Sciences, Madurai Kamaraj University from 10th to 12th February, 1986. Dr. S. Krishnaswamy, Vice-Chancellor inaugurated the symposium. Dr. R. D. Deshpande, Adviser, United National Environment Programme delivered the keynote address. Over 100 scientists from all over India participated in the Symposium.

A National Workshop on Maintenance and Improvement of Standards in Higher Education sponsored by the UGC was held from 28th to 30th April, 1986 at Madurai Kamaraj University. Dr. S. Krishnaswamy,

Vice-Chancellor was the Director of the workshop. The Workshop was inaugurated by Prof. N. Ananthapadmanabhan, Director of Collegiate Education, Madras. Prof. D. B. Desai, Centre of Advanced Study in Education, Baroda presented the theme paper. Dr. B. B. Sundaresan, Vice-Chancellor, University of Madras delivered the valedictory address.

A State level Seminar on Comparative Literature sponsored by U.G.C was held at Madurai Kamaraj University from 15th to 17th May, 1986. Dr. V. Sachithanandan, Prof., and Head, Dept. of English was the Director of the seminar. The seminar was inaugurated by Dr. S. Krishnaswamy, Vice-Chancellor. Two distinguished Tamil writers Mr P.G. Sundararajan (Chitti) and Mr. Sivapathasundaram took an active part in the discussions.

The School of Energy, Environment and Natural Resources of the University organised the National Solar Energy convention 1986 from 13th to 15th September. The convention was preceded by a one day Workshop on "Thermal Storage".

The convention was inaugurated by Her Excellency Kumud Ben Joshi, Governor of Andhra Pradesh under the presidentship of Shri J. C. Kapur, President, Solar Energy Society of India. Prof. Maheswar Dayal, Secretary for the Department of Non-Conventional Energy Sources, Government of India delivered the keynote address.

An "Environmental awareness campaign sponsored by the Department of Environment, Government of India was organised by the School of Energy, Environment and Natural Resources from 19th November. to 18th December, 1986.

The department of NSS participated in the National Environmental Awareness Campaign and organised several programmes. The department of NSS collected underprivileged children numbering 200 from four villages around the University campus and Madurai city schools and took them to Kodaikanal as part of the Environmental awarness campaign. The children were taken to the Sacred Hearts College and other places of environmental importance A one day seminar was organised for village Panchayat Presidents of Madurai and Anna Districts on 13th and 14th December, 1986. Fortyeight village Panchayat Presidents participated in the programme. A one day seminar on Towards Better Environment was organised for the be efit of students at S. T. Hindu

College, Nagercoil on 15th December, 1986. Film shows and Cultural programmes on environment were arranged by NSS at seven villages between 19th November and 18th December, 1986.

Awards, Honours and Fellowships

Prof. S. Krishnaswamy, Vice-Chancellor of the University has been appointed as a Member of the Ocean Science and Technology Board in his individual capacity for a period of three years upto 31-3-1989.

Prof. S. Krishnaswamy, Vice-Chancellor of the University has been nominated as Chairman of the Ganga Action Plan Research Committee by the Government of India.

The Vice-Chancellor and the following Professors of the University have been honoured by the Government of Tamil Nadu with the "Best Teacher Award".

1. Prof. S. Krishnaswamy, Vice-Chancellor.
2. Prof. RM. Periakaruppan, Professor of Tamil Studies.
3. Prof. T.B. Siddhalingaiah, Professor of Saiva Siddhantha.
4. Prof. V. Sachithanandan, Professor of English.

Prof N. Arumugam, Professor and Head, Department of Organic Chemistry has been unanimously elected as Vice-President of the Indian Council of Chemists.

Dr. S. Sivasubramanian, Reader, School of Chemistry went to the college of Science, Drexel University, Philadelphia, U.S.A. as a Post-doctoral Fellow for a period of one year from 15th September, 1986.

Prof. T.J. Pandian, Professor of Environmental Physiology, School of Biological Sciences of the University has been presented with Shanti Swarup Bhatnagar Prize for his meritorious contributions to Ecology, Energetics and Prediction modelling.

Prof. T J. Pandian, Professor of Environmental Physiology, School of Biological Sciences and Special Officer (Planning and Development) of the

University has been nominated as a Member of the Syndicate of the Alagappa University, Karaikudi for a period of three years from the date of the constitution of the Syndicate, by His Excellency, the Governor of Tamilnadu and the Chancellor of the University.

Prof. T J. Pandian, Professor of Environmental Physiology, School of Biological Sciences has been elected as a Fellow of the Indian National Science Academy. With this, he is the first Faculty of our University to have been elected Fellow of all the three prestigious Science Academics of India : F.N.A. (1987), F.A.Sc. (1985) and F.N.A.Sc. (1984)

Prof. T.J. Pandian, Professor of Environmental Physiology, School of Biological Sciences and Special Officer (Planning and Development) of the University has been invited by the Secretary, Asian Fisheries Society to join the Editorial Board of the proposed Journal of Asian Fisheries Society.

Prof. T J. Pandian, Professor of Environmental Physiology, School of Biological Sciences and Special Officer (Planning and Development) of the University has been appointed as a member of the Regional Consultative panel for University - Cum - Science and Technology Broadcasts of All India Radio, for a period of two years.

Prof. VR. Muthukaruppan, Professor of Immuno-Biology, School of Biological Sciences of the University has been offered National Fellowship by the University Grants Commission for a period of two years.

Prof. G. Shanmugam, School of Biological Sciences of the University has been invited by the University Grants Commission to participate in the National Lecturer Programme for the year 1986-87.

Prof. G. Shanmugam, School of Biological Sciences of the University has been offered the Biotechnology Overseas Associateship (short term) by the Department of Biotechnology, Government of India.

Dr. K. Dharmalingam, Reader in Cell Biology, School of Biological Sciences has been elected / nominated to the following organisations in India.

1. Member – National Committee for International Union of Biochemistry (IUB) 1985-88.
2. Member – Guha Research Conference.

3. Member – Recombinant DNA Advisory Committee (National Biotechnology Board) 1985 - 88.

4. Member – Task Force of Bio-Informatics National Bio Technology Board.

5. Member – Research Advisory Council Centre for Cellular and Molecular Biology, Hyderabad.

Dr. (Mrs.) R. Kasturi Bai, Lecturer, School of Energy, Environment and Natural Resources of the University has been awarded National Associateship (Senior) for a period of one year by the Department of Biotechnology, Government of India.

Dr. S. A. Chodum, Reader in Mathematics of the University, has been offered a Commonwealth Academic Staff Fellowship tenable in United Kingdom for the period from 1-10-1986 to 31-7-1987.

The University Grants Commission has selected Thiru K. Pitchumani, Department of Organic Chemistry, P.G. Extension Centre, Palayamkottai of the University for participation in the scheme of National Associateship for three years from 1-2-1986 to 31-1-1989.

Prof. RM. Periakaruppan, Professor and Head, Department of Tamil Studies of the University has been nominated as a member of the Senate of Tamil University for a period of three years by His Excellency, the Governor of Tamil Nadu and the Chancellor of the University.

Prof. RM. Periakaruppan, Professor and Head, Department of Tamil Studies has been nominated as a member of the Language Advisory Committee for Tamil for a period of three years by Bharatiya Jnanpith Committee, New Delhi.

Prof. G.P. Rao, Professor and Head of the Department of Management Studies of the University has been elected as a member, Governing Council of the Indian Association for Management, New Delhi.

Thiru R. Jayaraman, Lecturer in Management Studies of the University has been nominated by the National Institute for Entrepreneurship and Small Business Development (Ministry of Industry, Government of India) as a member of its National Pool of Experts.

Prof. S. Jeyachandran, Professor and Head, Department of Geography of the University has been nominated by the Indian Council of Social

Research, Southern Region as a member of Advisory Committee for a period of two years (1986 — 1988).

Merit Promotion :

Merit Promotion scheme for the University Faculty was implemented during this year also and 14 Lecturers were promoted as Readers and 3 Readers were promoted as Professors.

Research Degrees :

39 Research Scholars and 118 teacher candidates were registered for Ph.D. degree during the year. Theses submitted by 97 candidates were accepted by the University for award of Degree of Doctor of Philosophy during the year. One candidate was awarded M.Litt., degree.

Research Projects :

Various agencies such as the U.G.C., D.S.T., Department of Atomic Energy, National Council of Educational Research and Training., C. S. I. R., I. C. M. R., and I. C. S. S. R., continued to finance 106 research projects for the various University Departments. The total amount approved by the various agencies for these projects is Rs. 6,16,22,811.

Research Papers :

291 papers from the various departments of the University were published in National and International Journals during the year as against 265 last year.

U.G.C. Grants :

The University Grants Commission has approved proposals for sanction of grants for books and journals Rs. 13/- lakhs, equipments Rs. 24/- lakhs, buildings Rs. 12.25/-lakhs and Evening college Rs. 5/- lakhs.

The U.G.C. has also agreed to allocate upto a sum of Rs. 10/- lakhs for housing facilities to teachers, Vice-Chancellor's lodge etc.

From the D. R. D. O., New Delhi :

The Defence Research Development Organization, Ministry of Defence, Government of India, New Delhi has sanctioned a grant of Rs. 104/- lakhs

as detailed below to the University for the "Training in Computer Software - M.Sc. Computer Science" for the academic session 1986-87 with effect from 23-9-1986.

Non-Recurring		Rs. 90—00 lakhs
Fellowship		Rs. 2—40 ,,
Recurring		Rs. 12—00 ,,
	Total	Rs. 104—40 lakhs

Audio Visual Research Centre :

The University Grants Commission has approved the proposal of the University for establishment of an Audio Visual Research Centre in the University.

The centre will engage in the production of programmes catering to the Audio Visual needs of educational institutions in the country.

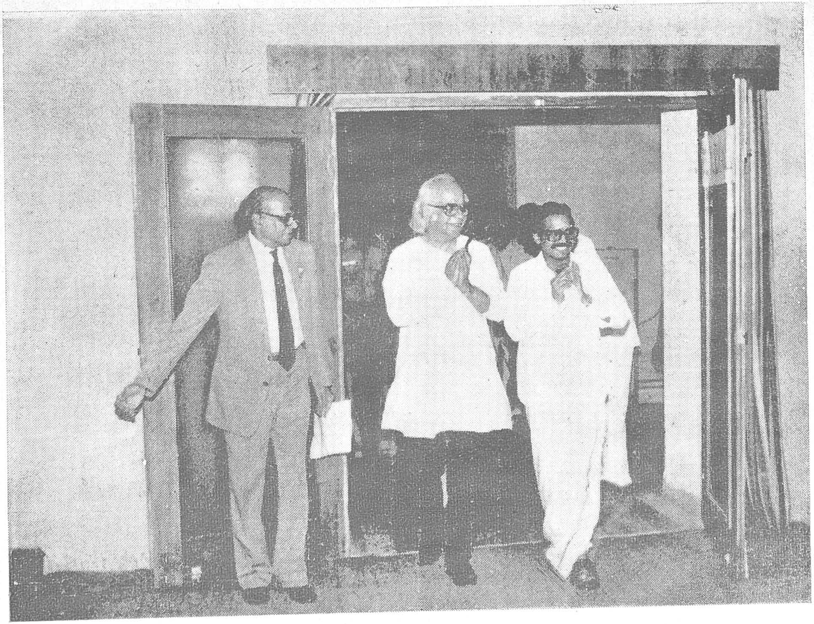
Marine Station - cum-Museum at Tiruchendur :

The University caters to the needs of higher education and research in the southernmost 8 revenue districts. It has the longest coast under its academic command; unfortunately, the University campus is situated in the inland city of Madurai. To provide access and avenue for teaching and research in Ocean Sciences, the University has proposed to establish a Marine Station-cum-Museum at Tiruchendur. The U.G.C. has sanctioned a sum of Rs. 3.00 lakhs for the proposed centre. The Department of Ocean Development, Government of India has also sanctioned a further sum of Rs. 8.00 lakhs. The centre will be established shortly.

New Buildings :

The opening function of the Humanities and Social Science Block V was held on Saturday, the 6th December, 1986, under the Presidentship of the Education Secretary, Thiru T.D. Sundar Raj, I.A.S., The Hon'ble Minister for Education, Thiru C. Ponnaiyan declared open the Building.

Dr. Yash Pal, Chairman, University Grants Commission laid the foundation stone for the Biology Complex building on 6th December, 1986, to



Hon'ble Thiru C. Ponnaiyan, Minister for Education and Law and Pro-Chancellor of the University and Prof. Yash Pal, Chairman, University Grants Commission enter the meeting hall for the opening function of the Humanities and Social Science block and laying of foundation stone for the Biology complex building on 6th December, 1986.

be constructed at a cost of Rs. 32 lakhs. Hon'ble Thiru C. Ponnaiyan, Minister for Education presided.

Extension Lectures by distinguished scholars :

95 lectures were given in the various departments of the University and the names of some of the eminent scholars who delivered the lectures are given below :

1. Dr A. Jayaraman, U.S.A
2. Prof. Simon George, U.S.A.
3. Dr Fredric Warner, London
4. Prof. K. Rajeswaran, Zambia
5. Prof. G.M. Naidu, U S.A.
6. Prof. M. Nelson Robinson, U.S.A.
7. Mr. Jean A. Bernard, Paris
8. Dr. R. Hotta, Japan.
9. Prof. Taqdir Husain, Canada
10. Prof V. Varadarajan, Canada
11. Dr. V.K. Chetty, New Delhi
12. Dr. T.K. Ommen, New Delhi
13. Dr.K. Krishnamurthy, PortoNovo
14. Dr. R.V. Sachdev, Bombay
15. Prof. M.V. Pylee, Cochin
16. Mr. Fred Marsh, London
17. Rev. Wesley Aryarajah, Geneva
18. Dr. George Willoughby, USA
19. Dr. John B. Taylor, Geneva
20. Dr. Rm. Panayappan, U.S.A.
21. Prof. Merillgaussman, USA
22. Prof. Satoshi Hoshina, Japan
23. Prof. MalcolmCoe, Oxford University, U.K.
24. Prof. Kunwar Bhatnagar, USA
25. Dr. Heinz Stephan, FRG
26. Prof M.A. Ali, Canada
27. Prof. P.K. Menon, Canada
28. Dr. (Miss) B. Brandi - Dohrn, New Delhi
29. Dr. R.J. Ellis, London.

A list of distinguished visitors to the various departments of the University from India and abroad is given in Appendix-D.

Post-graduate Extension Centre at Tirunelveli :

During this year two more departments, English and History, were started in addition to the existing departments of Chemistry and Sociology at the Extension centre, Tirunelveli. These departments were shifted to a new spacious building.

Study and Information centres at Nagercoil :

The Study Centre at Nagercoil was started during the year in a new building in addition to the Information Centre that has been functioning since 1983.

World Tamil Service :

The World Tamil Service has already produced two cassettes "Neethi Tamil" and "Kuzhandai Tamil" for the benefit of the Tamil children all over the world. They consist of songs from Avvaiyar and Desiga Vinayagam Pillai, Bharathi and others.

Two new cassettes consisting of Tamil stories relevant to children similar to the bed time stories in English are being planned for production in collaboration with AVM Music Service, Madras.

Tamil text books have been prepared for the school children in Fiji Islands.

The Post - graduate Tamil Course under the Institute of Correspondence Course and Continuing Education is now being extended to Tamil Students in Malaysia.

Publications Division :

Dr. C.K. Mahadevan continued to be the Publications Officer. 10 new books were added this year raising the total number of publications to 94. The Publications Division participated for the first time at the 7th World Book Fair held at New Delhi from 7th February to 17th February, 1986.

University News Letter :

The Madurai Kamaraj University News Letter continued its publication for the year 1986 and it brought out six issues. The special feature of this News Letter is that it is being printed in the offset process using the word processor facility available in the University. During this year a number of colleges sent messages and reports on various activities which found a place in the News Letter on a regular basis. A number of new columns were introduced which provided additional information about the activities in the University Campus as well as around the colleges.

Biology Journal :

The Biology Curriculum Development Centre has been renamed as *Centre for Biology Education* and Dr. J. C. B. Abraham, retired Professer of Zoology, American College, Madurai has been appointed as the Honorary Assistant Director.

The issues of the Journal *Biology Education* are being released regularly.

An all-India refresher course in biostatistics was conducted.

Curricula for teaching Sericulture at the B.Sc , and M.Sc., levels have been developed by a panel of experts invited from all over India.

University Science Instrumentation Centre :

Prof. N. Arumugam continued to be Professor -in-charge of the Centre. This centre is responsible for repairs and services of instruments in the University departments besides undertaking research and development work in instrumentation. This centre conducted an All India Short-term Course on Instrumentation sponsored by the UGC from 6th to 25th October, 1986.

Computer Centre :

This year, a post B. Sc., Diploma Course in Computer Science and Applications has been started by this centre. Additional Computers have been purchased in order to extend its services to the administration and other wings. This centre continued its assistance to the teaching faculty and the research scholars of the University and the affiliated colleges in solving their computational needs.

A two day course was organised to acquaint the Principals and teachers of colleges offering B.Sc., Computer Science Course, with Computer. Further, training courses were arranged by this centre for the teachers and staff of the University.

Science Education Centre :

Dr. C.E. Sooriamurthi continued to be the Honorary Director of the Centre. Telescopes were set up to view the Halley's comet by the staff, sudents and public for 15 days in the month of March 1986 in the Campus.

Study Centre:

There are three study centres at present at Madurai, Palayamkottai and Nagercoil. The study centre at Nagercoil was started this year. These study centres continued to function as usual serving the needs of the students of the colleges and ICC & CE making available to them text books and reference books.

Sports and Tournaments:

Thiru A.R. Dhanaraj continued to be the Director of Physical Education and Recreation. The University teams in Ball Badminton (Men and Women), Tennis, Weight lifting, Cycling and Hockey participated in the Inter-University Tournaments for the year 1985-'86 in January, 1986. The University Kabadi (Men) team has won the South Zone Inter-University Kabadi Championship for the year 1986-'87. This team secured the fourth place in the All India Inter - Zone - Inter University Kabadi Tournament for the year. The Inter-Collegiate Inter-Zone Tournaments for men for the year 1985-'86 were held in February-March, 1986. The Inter-Collegiate Atheletic Meet for Women was conducted on 8th and 9th September, 1986 and for men on 27th and 28th October, 1986.

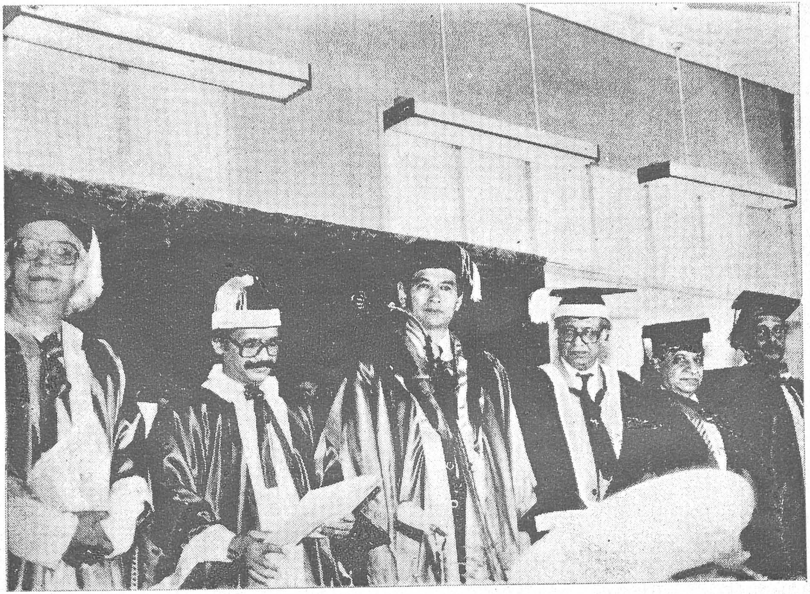
Intramural Tournaments for the staff, students and research scholars of the University were conducted in April 1986 in Ball Badminton, Shuttle Badminton, Chess, Carrom, Tennikoit and Volleyball. Students cultural group won six cups in the Inter-Collegiate cultural festival organised by the American College and Sourashtra College.

National Cadet Corps:

The present strength of the National Cadet Corps in the 63 affiliated colleges is 3996 boys and 910 girls. A detailed report of the activities of the NCC in the affiliated colleges of the University during the year is given in Appendix-W.

Department of Youth Welfare:

Thiru V. Dhakshinamoorthy continued to be the Director of the department. The department continued to organise co curricular activities for the students of colleges in the University. During February 1986, the department organised the 7th Annual Youth Festival at Madurai,



The Twentieth Annual Convocation of the University was held on 6th December, 1986. The Hon'ble Thiru C. Ponnaiyan, Minister for Education and Law and Pro-Chancellor of the University presided over the Convocation. To his left is Dr. Tetsuo Kanno.

University Employment Information and Guidance Bureau:

The total number of persons registered at the Bureau was 771. Employment guidance service was also provided to the Post-graduate and Professional degree holders.

National Service Scheme:

Thiru S. Raju continued to be the Programme Co-ordinater of the N.S.S. The N.S.S. launched in the University in 1969 with a student strength of 1000 has grown 20 times during the year under report.

At the instance of our Vice-Chancellor the department of NSS has set up the University Choir and the formal inauguration of the Choir was held in the month of April 1986. Subsequently the Choir had given three performances at three different places.

The Annual Conference of NSS Programme officers of all colleges was held at Aditanar College of Arts and Science, Tiruchendur during May 1986.

The Conference of Principals of colleges was organised on the 13th August 1986 exclusively for a discussion on the strengthening of NSS and other extension programmes in the University. 70 Principals participated in the programme.

During the year under report, in response to the call given by the Ministry of 'Youth Affairs and Sports', the NSS, Madurai Kamaraj University participated in the battle against illiteracy. 35% of the volunteers participated. The programme of Mass Functional Literacy has been included as one of the concurrent Programmes under NSS.

Among other activities, NSS participated in the Waste Land Development Programmes and Environmental Awareness Campaign Programmes. About 1,25,000 saplings were planted in the catchment area of Vaigai Dam in about 120 hectares. The volunteers were involved in a big way in creating an awareness about the environment and also in the preparation of simple oral rehydration therapy for treatment of diarrhoea.

The NSS of Madurai Kamaraj University was the only University in the country which participated in the National Environmental awareness Campaign launched in the country for a month from November 19th

to December, 18th. The Ministry of Environment and Forests provided funds.

Terukkuuttu Workshop:

A Workshop on Folk Art Programme (Terukkuuttu) was organised by the University for 12 days from 1st December, '86.

The aim of this workshop is to develop a permanent troupe for Terukkuuttu in Madurai Kamaraj University, its academic, administrative staff acting in it, and to use it to spread science and scientific attitude to the people.

Traditionally stories from Mahabharata and Bhagavatha form the theme for Terukkuuttu plays. The aim in using this as a medium is to propagate modern scientific and social ideas, relevant to the society now. Dr. Vijayalakshmi Navaneethakrishnan, wrote a Terukkuuttu play having environmental pollution, spread of diseases and their preventive measures, as the theme and it was named *Cuuzhnilai Paaratam or Piniyaasuran Cammaaram* Her's was a new attempt, innovative and it made a break through in the theme of plays for Terukkuuttu. Except for the theme, the form and structure of Terukkuuttu. were strictly adhered to.

This University is the first to encourage research on Folk Arts for the Ph.D. This workshop is a continuation of that innovative pioneering work, but not a culmination.

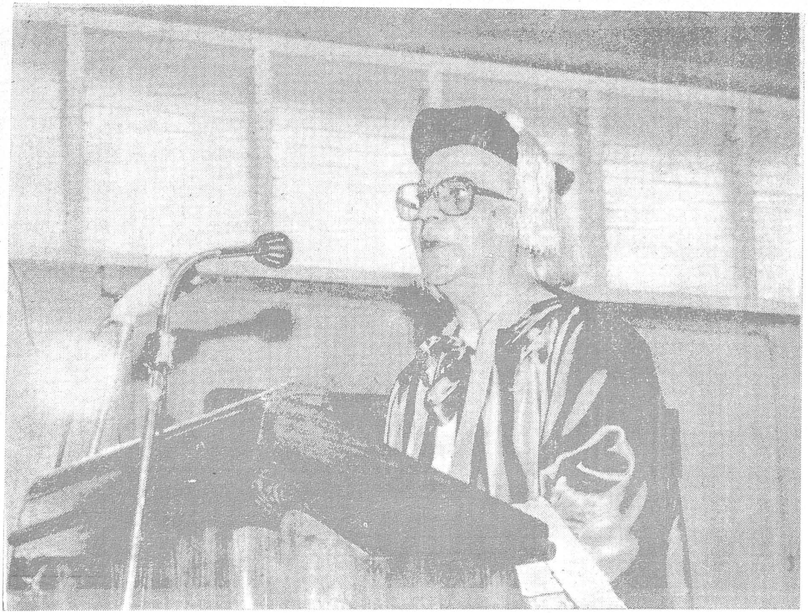
The University has organised a permanent troupe for Terukkuuttu to stage plays relevant to problems of modern society. The faculty and administrative staff of the University are involved in this programme.

National Adult Education Programme :

Thiru R. Rengasamy continued to be the Director of the programme. Sixtyseven colleges in this University area were involved in this programme. A Workshop on Mass literacy Programme for Southern Universities was organised on 27th August, 1986 with the co-operation of the Indian University Association for Continuing Education.

Institute of Correspondence Course and Continuing Education :

Dr. (Tmty) J.K. Pillai, took charge as the Director of the Institute from Dr. T.B. Siddalingaiah with effect from 1st June, 1986. The Institute entered its 16th year of service with a total enrolment of 67,654 students



Prof. Yash Pal, Chairman, University Grants Commission delivering Convocation address at the Twentieth Annual Convocation held on 6th December, 1986.

as against 64,597. The Director of the Institute visited Malaysia as a member of the delegation to study the implementation of the overseas Correspondence Course. During this year, a certificate course in Journalism and Mass Communication was introduced as a Continuing Education Programme.

Open University :

The Open University entered its tenth year of service with 9,296 students. During this year, two more courses viz.,

1) Certificate Course in Everyday Science.

2) Certificate Course in Family and Child Welfare were introduced under this system.

Evening College :

Dr. P. Marudanayagam, Reader, Department of English continued as Director of the college till 30–11–'86. Dr. S. M. Subburaj, Reader in Economics, ICC & CE., took charge as the Director of the college with effect from 1–12–1986. The strength of the college in the degree, post-graduate and part-time courses during the year was 856. During this year a B.Sc. course in General Science was started with an enrolment of 26 students. The college organised guidance programme for 53 students for the preliminary part of the IAS examination.

Convocation :

The Twentieth Annual Convocation of the University was held on 6th December, 1986. Hon'ble Thiru C. Ponnaiyan, Minister for Education and Law and Pro-Chancellor of the University presided over the convocation. Prof. Yash Pal, Chairman, University Grants Commission delivered the convocation address.

At this Annual Convocation, Dr. Tetsuo Kanno, Professor and Head of Neuro Surgery, Fujita-Gakuen Health University, School of Medicine, Toyoake-Aichi, Japan, was conferred the Honorary Degree of Doctor of Science for his eminent position, attainments and contributions to the cause of Medical Science. The Vice-Chancellor of the University, Dr. S. Krishnaswamy read the citation.

CHAPTER - II

University Departments and affiliated Colleges :

University Departments :

The University Departments continued their activities of teaching and research during the year. There were 1102 Post-graduate and M.Phil students and 226 full-time research scholars in the 41 University departments. There were 54 Professors - 86 Readers and 176 Lecturers.

The names of University teachers who went abroad during this year are given below.

TABLE - I

Sl. No. (1)	Name of the teachers (2)	Name of the department (3)	Country visited (4)	Purpose of visit and period (5)
1.	Dr. C.K.Mahadevan	Tamil	Kuala-lumpur Malaysia	"Second International Seminar on Saiva Siddhanta" 14th to 16th Nov. '86.
			Singapore	To establish and to explore the possibility of sales of scholarly books. 17th to 24 Nov. '86.
2.	Dr. T. B. Siddhalingiah	Saiva Siddhanta.	Kuala-lumpur	Second International Seminar on Saiva Siddhanta 14th to 16th Nov. '86
3.	Dr. S. Gangadharan	-do-	Kuala-lumpur	Second International Seminar on Saiva Siddantha. 14th to 16th Nov. '86

Dr. Tetsuo Kanno, Prof. and Head of Neuro Surgery, Fujita-Gakuen Health University School of Medicine, Toyoake-Aichi, Japan was conferred the Honorary Degree of Doctor of Science at the Annual Convocation held on 6th December, 1986.

(1)	(2)	(3)	(4)	(5)
4.	Dr. R. Venkataratnam	Sociology	Japan	To attend Second Asian Conference on Health and Medical Sociology held at Urayasu. 11th to 14th August, 1986.
5.	Dr. T. M. Haridasan	Energy	Singapore	To attend workshop on materials for Solid State batteries. June 1986 (One week)
6.	Dr. S. Balasubramaniam	Physics	Trieste, Italy.	On invitation by the ICTP, participated in the condensed matter research workshop. June & Sept. '86
7	Dr. Albert Johnson	Pol Sc.	Switzerland	'First International Conference of International Political Science Association — Study group on Comparative Federalism,' March 1986.
8.	Dr. E. Palaniyandi	Physics	Hefei, (Peoples Republic of China)	To attend the 'Asian college on Micro-Processors Technology and application to Physics'
9.	Dr. A. Manthiram	Chemistry (P.G. Extn. Centre.)	U.K.	'Proceeded on Study leave to take up a Post Doctoral Fellowship'.
10.	Prof. C. Srinivasan	Chemistry	Japan	'To present a paper in two International Conferences at Tokyo & Tsukuba'. 21-8-1986 to 2-9-1986.

(1)	(2)	(3)	(4)	(5)
11.	Dr. S. Rajagopal	Chemistry	Japan	'UNESCO Research Fellow at Tokyo Institute of Technology from Oct. 1985 to September, 1986.
12.	Thiru A. Francis Lawrence	English	U.K.	'Six weeks summer-course in spoken English'- July '86 and Sept. '86.
13.	Dr. K. Rama-chandran	Computer Science	Trieste, Italy.	'To attend a Conference' 29-9-'86 to 16-11-1986.
14.	Dr. K. Paliwal	Plant Science	FRG	'Second International Symposium on "Biosphere - Atmosphere Exchange' 16-3-'86 to 27-3-'86.
15.	Dr. M Lakshmanan	Micro-Biology	Singapore	4th Congress of the Federation of Asian and Oceanic Bio-Chemistry. Nov. 30th to Dec. 5th 1986
16.	Dr. C. Rajamanickam	-do-	-do-	-do-
17.	Dr. S. Shanmuga-sundaram	-do-	U. S. A.	ICAR Indo-US Seminar Programme. 21st Dec '85 to June 4th '86
18.	Dr. J. Jeyaraman	Bio-Chemistry	Bangkok	Research Co-ordination meeting. 27th to 31st Jan. 1986
19.	-do-	-do-	Phillippines	INSA Programme 15th to 28th March '86
20.	Dr G. Shanmugam	Cancer Biology	USA	Gorden Research Conference in New Hampshire, USA. One week in Aug. 1986

(1)	(2)	(3)	(4)	(5)
21.	Dr. M K. Chandra-sekaran	Animal Behaviour	FRG	'Delivered lectures at various Universities 5 months)*
22.	Dr. G. Marimuthu	-do-	,,	'Analysis of data on vocalizations of bats. Zoology Institute Munich FRG (3 months)
23.	Dr. K. Sripathi	-do-	,,	'To study the audiograms of various species of bats (3 months) Zoology Institute, Munich, FRG
24.	Dr. N. Viswanathan	-do-	Japan	2nd Sapporo Symposium on Biological Rhythms. 21st to 23rd Aug. 1986
25.	Dr. K Dharma-lingam	Biological Sciences	Manchester, U.K. Yugoslavia	DBT Overseas fellowship April-Oct. 1986. Symposium on Genetics of Industrial Micro organisms 14th to 20th Sept. 1986
26	Dr. T.J. Pandian	Animal Sciences	Philippines	'For participation in First Asian Fisheries Forum' May 1986
27.	Dr. S. Mathavan	-do-	-do-	-do-
28.	Dr. T.J. Pandian	-do-	W. Germany	'Invited to visit the Laboratories and for scientific discussion.
29.	-do-	-do-	France	'For participation in ISIR Symposium'

* as a Re-invitation Alexander Von Humboldt Scholar (April-July '86) (German Academic Exchange Scholar)

(1)	(2)	(3)	(4)	(5)
30.	Dr. VR. Muthu-karuppan	Immunology	Univ. of Wisconsin, U.S.A.	'Visited as visiting Professor' 15-5-'86 to 15-7-'86
31.	-do-	-do-	Toranto Canada	International Congress of Immunology July 6th to 11th, 1986
32.	Dr. RM. Pitchappan	-do-	California Japan	i) 6th International congress of Immunology, University of California ii) International Workshop at Sapporo, Japan
			France	iii) INSA—Programme 4 weeks; Feb. - March 1986
33.	Dr. P. Ramamorthy	ICC & CE	West Berlin	Shakespeare Congress 29th March to 7th April 1986
34.	Dr. S. Sambasivam	-do-	Kuala Lumpur	Second International Seminar on Saiva Siddhantha philosophy. 14th to 16th Nov. '86.

M.Phil., Programme:

Admission to the M.Phil degree courses were made in different subjects in the University Departments. Details of number of the candidates admitted to the course are given below :

TABLE II

Sl. No.	Subjects	Men	Women	Total
1.	Tamil	11	24	35
2.	English	14	22	36
3.	History	16	9	25
4.	Economics	25	10	35
5	Geography	2	6	8
6.	Sociology	8	3	11
7.	Political Science	10	3	13
8.	Sanskrit	1	—	1
9.	Education	6	3	9
10.	French	1	2	3
11.	Mathematics	21	4	25
12.	Physics	5	7	12
13.	Biology	4	1	5
14.	Energy & Environment	5	3	8

M.Sc., Computer Science Course:

This University is one of the five Universities selected to offer M.Sc. Course in Computer Science by the Defence Research Development Organization, New Delhi. A sum of Rs. 104 lakhs has been sanctioned by this organization for conducting this course.

M.B.A. Course through Correspondence cum-Residential Programme for defence personnel has also been started.

Institute of Correspondence Course and Continuing Education:

The Institute of Correspondence Course and Continuing Education has entered its 16th year of service. The enrolment of the Institute is 67,654.

The Institute at present offers nine graduate courses viz., (History, Political Science, Social Sciences, Economics, Geography, Tamil, English, Mathematics and Commerce) seven Post-graduate courses viz., (History,

Political Science, Economics, Tamil, English, Gandhian Thought and Commerce) and B.G.L., B.Ed., and M.Ed. degree' courses, Certificate Course in Journalism and Mass Communication, Foundation courses and certificate courses in Everyday Science and Family and child welfare under Open University System.

The staff at present consists of a Director and 108 teachers. The Administrative staff at present consists of 229 persons with 2 Deputy Registrars and 3 Assistant Registrars.

Contact Seminars were arranged in five centres for various courses. The Radio broadcasting programme covered all courses conducted by the Institute, besides summer broadcasting arranged for B.Ed., and M.Ed. students during vacation.

For the benefit of the students of the Institute, Information centres functioned at Madras, Tirunelveli, Madurai and Nagercoil.

The details of number of students in different courses in the Institute of Correspondence Course and Continuing Education are given below :

TABLE III

Name of the Course	Students as on 31-12-1985			Students as on 31-12-1986		
	Men	Women	Total	Men	Women	Total
Degree	26,024	14,313	40,337	23,488	13,274	36,762
Post-Graduate	11,958	6,898	18,856	10,556	5,128	15,684
Professional	3,922	1,464	5,386	3,397	1,628	5,025
Cert. in Journalism & Mass Communication	—	—	—	707	180	887
Open University system	—	—	*12,154	6,875	2,421	9,296

* Both men & women.

Under the Faculty Improvement Programme, four teachers were deputed to work for Ph.D. degree and two teachers were granted study leave to complete their Ph.D. Programme.

Evening College :

The Evening College continued to function in the City Complex. The college at present offers Under-graduate and Post-graduate courses in addition to certain part-time certificate and diploma courses. The staff at present consists of one Director and 158 part-time teachers. The student enrolment of the college is 856.

Affiliated Colleges :

Further affiliation for Post-graduate courses were granted to 16 colleges and for Under-graduate courses to 23 colleges during the year.

Eight colleges were granted permission to offer the new course for B.Sc. Computer Science introduced this year. Permission to start the other courses in the evening were given to 3 colleges. Details of courses granted to the colleges are given in Appendix - F

The following teachers of the affiliated colleges were awarded best Principal / Teacher award by the Government of Tamilnadu.

1. Dr. SP. Annamalai, (Best Principal,)
   Thiagarajar College, Madurai.
2. Dr. A. Pownraja, (Best Principal,)
   ANJA College, Sivakasi.
3. Tmty. G. Pankajam, (Best Principal)
   Lakshmi Teachers' Training College, Gandhigram.
4. Dr. R. Kanagasabapathy, (Best teacher)
   Principal

   Aditanar College of Arts & Science, Tiruchendur.
5. Dr. M. P. Gurusamy, (Best teacher)
   Professor,

   Aditanar College of Arts and Science, Tiruchendur.
6. Thiru L.C. Thanu (Best teacher)
   Principal, S. T. Hindu College. Nagarcoil.
7. Selvi S. Baghirathi (Best Teacher), Principal
   Sri Parasakthi College for women, Courtallam.

The achievements of the colleges in academic and extra-curricular activities are given in Appendix-T.

Table IV shows the number of colleges affiliated to the University under different categories :

TABLE IV

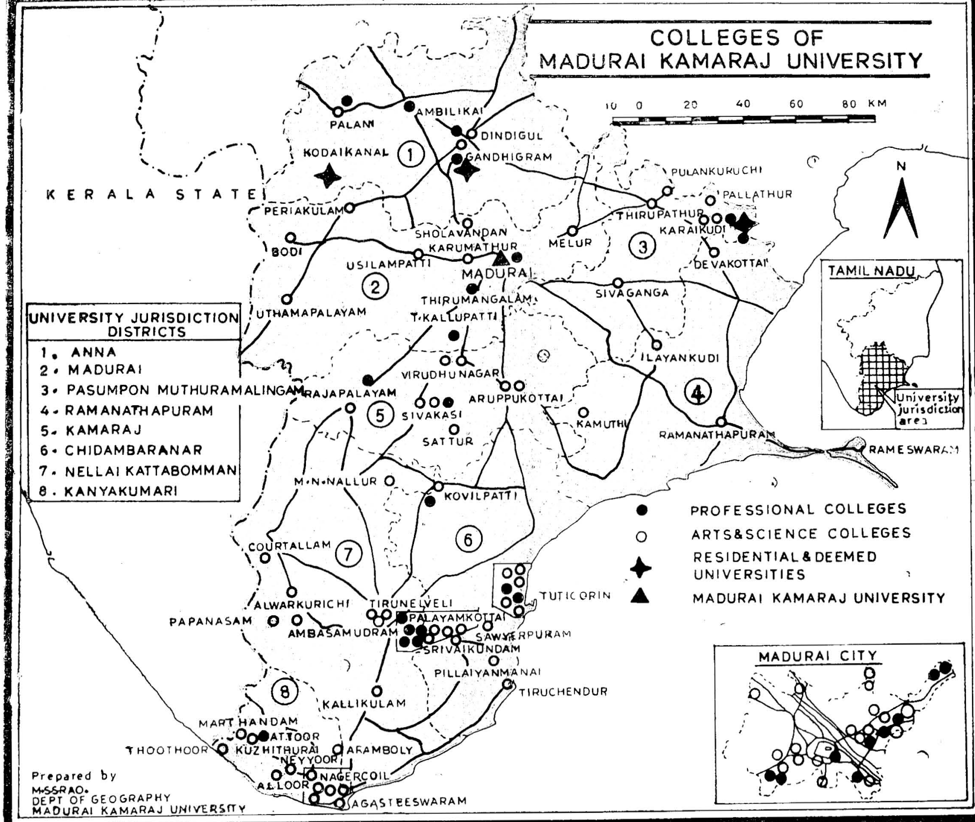
Number of Colleges in different years

	1984	1985	1986
I. Colleges for General Education :			
Men : Government	3	4	4
Aided	58+1*	59+1*	59+1*
Women : Government	3	3	3
Aided	17	17	18
II. Colleges for Professional Education :			
a. Law : Government	1	1	1
b. Medicine : Government	2	2	2
c. Indian Medicine ,,	1	1	3
d. Pharmacy : (Self-Financing)	—	1	1
e. Engineering : Government	2	2	2
Aided	1	1	1
Self-Financing	6	7	7
f. Education : Men : Aided	6	5	5
Women : Aided	3	3	3
g. Physical Education : Aided	1	—	—
III. Other Institutions	5**	5**	5**
	111+1*	111+1*	114+1*

* M.G.N. College, Sankarankoil, "Subject to the orders of the Supreme Court in the appeal and the stay application filed on behalf of the University against the order of the High Court in the Writ Appeal No. 327 of 1974."

** This includes Aravind Eye Hospital, Madurai which is offering D.O. and M.S. Courses.

COLLEGES OF MADURAI KAMARAJ UNIVERSITY



Prepared by
M.S.S.RAO.
DEPT OF GEOGRAPHY
MADURAI KAMARAJ UNIVERSITY

College Development Council :

The term of the College Development Council expired in September, 1985 and the Council was reconstituted with effect from 1-4-1986.

The meeting of the College Development Council and its District Sub-Committees was held on 27-8-1986 at the University Faculty Guest House.

Sixty Eight Colleges have availed themselves of the grants released by the U.G.C. under various schemes during VI Plan period. The Sub-committee of the College Development Council, constituted to ensure the proper utilisation of U.G.C. funds visited four colleges out of the remaining 6 colleges and inspected the accounts. The reports of the Sub-Committee on the inspection of accounts have been sent to the U.G.C and the Government of Tamil Nadu.

Details of grants sanctioned under various schemes to the colleges by the U.G.C. are given in the Appendix - U.

TABLE - V

Student Strength :

Particulars regarding the total number of students under different courses in the colleges (including Evening College) are given below :

Name of the Courses	Students as on 31-12-1985			Students as on 31-12-1986		
	Men	Women	Total	Men	Women	Total
Degree	31,305	19,562	50,867	36,048	19,949	55,997
Post-Graduate (Excluding Professional Degree)	3,417	2,305	5,722	4,072	2,511	6,583
Professional	8,552	2,171	10,723	8,064	2,942	11,006
P.G. Professional	210	46	256	513	94	607
Others :						
Certificate and Diploma Courses	882	314	1,196	621	62	683
M.Phil.,	46	21	67	67	25	92

Examination Results :

A statement showing the number of candidates who appeared and passed the various cxaminations held during the year 1986 is given below:

TABLE VI

Subject	No. of students appeared	No. of students passed	Percentage of Passes	No. of students passed in I Class
O.T. Preliminary	257	75	29.18	Nil
O.T. Final	347	105	30.26	Nil
B.A. (Semester)				
Tamil	138	116	84.06	67
English	756	483	63.89	77
History	1301	770	59.19	277
Economics	1114	689	61.85	271
Political Science	35	8	22.86	1
Indian Culture	15	5	33.33	Nil
Philosophy	49	49	100.00	25
B.B A.	369	170	46.07	52
B.A. (Special)	35	10	28.57	7
B.Music	14	12	85.71	2
B.Litt.	18	11	61.11	6
B.A. (Non-Semester)				
Tamil	490	131	26.73	9
English	404	60	14.85	Nil
Economics	859	162	18.86	3
History	2541	568	22.35	6
Political Science	243	56	23.05	Nil
Social Sciences	129	18	13.95	1
Geography	36	4	11.11	Nil

(1)	(2)	(3)	(4)	(5)
B.Sc. (Semester)				
Mathematics	1698	567	33.39	401
Physics	1029	635	61.71	603
Chemistry	1781	968	54.35	928
Botany	668	306	45.81	335
Zoology	1395	663	47.53	536
Applied Zoology	17	6	35.29	6
Geology	44	20	45.45	7
Geography	181	61	33.70	27
B. Sc. (Non-Semester)				
Mathematics	398	20	5.02	3
B.Com. (Semester)	2184	1108	50.73	614
B.Com. (Non-Semester)	5534	714	12.90	8
M. A. (Semester)				
Tamil	181	132	72.93	115
English	284	96	33.80	49
Economics	317	95	29.97	83
History	359	199	55.43	159
Political Science	17	9	52.94	6
Social Work	45	36	80.00	33
Linguistics	11	5	45.44	2
Indian Culture	13	3	23.C8	2
Malayalam	8	6	75.00	3
Philosophy & Religion	4	3	75 00	2
French	9	7	77.78	7
M.Sc. (Semester)				
Mathematics	419	198	42.50	195
Botany	187	100	53.48	100
Zoology	168	132	78.57	127
Geology	15	13	86.67	12
Rural Development	19	10	52.63	9
Biology (Integrated)	20	19	95.00	19

1	2	3	4	5
M.Sc., (Semester) (contd.)				
Physics	200	71	35.50	71
Chemistry	177	62	35 03	62
Mathematical Economics	15	13	86.67	10
M.Com. (Semester)	564	164	29.08	162
B E (Semester)				
Civil	287	180	62.72	168
Electrical and Electronics	54	35	64 81	34
Electronics and Communication	100	79	79.00	75
Mechanical	217	172	79.26	164
M.B.A. Semester	56	42	75.00	30
M.B.A. (Non-Semester)	60	45	75.00	33
M.B.B.S.	197	87	44.60	Nil
B.S.M S.	59	48	81.35	Nil
M.D.	95	29	30.53	29
M.S.	50	18	36 00	18
M.D (Siddha)	14	6	42.86	Nil
M.Ch.	9	9	100.00	9
P. G. Dip. in Medicine	107	68	63.55	Nil
B.Ed. (Non-Semester) (I. C. C. & C. E)	1129	591	52.35	116
B.Ed. (Semester)	886	835	94.24	675
M.Ed. (Semester) (I.C.C & C.E.)	1551	856	55.19	38
M.Ed. (Semester)	9	9	100.00	7
Certificate Courses	1241	950	76.55	214
Diploma Courses	421	330	78.38	199
B.L I. Sc.	35	26	74.29	7
M.L.I.Sc.	9	9	100.00	9
B.G.L. I & II Year (Non-Semester I.C.C. & C.E)	1235	174	14.09	Nil
B.L. (Semester - 3 years)	395	118	29.87	Nil
B G.L (Semester - 3 years)	762	136	17.85	Nil

Regulations and Statutes :

Amendments to the Statutes and Regulations of the University passed at the meeting of the Senate and the Academic Council during the year are given in Appendix-H.

CHAPTER - III

RESEARCH ACTIVITIES

Research Work is being carried in all the departments of the University as well as in some of the affiliated Post-graduate Colleges. 18 new schemes were sanctioned during the year for research projects in the University Departments; the total schemes in operation being 106. The Schemes under operation in the University Departments are given in Appendix-M.

Research in the University Departments :

During the year, 97 candidates were awarded Ph.D. degree and 157 candidates were registered for the Doctorate degree. One candidate was awarded M.Litt. degree.

A statement showing the names of candidates registered under various research titles under different Supervisors is given in Appendix - K.

Particulars regarding the total number of Research Scholars working in the Departments under various categories are given below :

TABLE—VII

Sl. No.	Subjects	Univ. stipendiary	UGC Allocation	UGC Direct Award	CSIR	ICMR	CILL	Total
1	2	3	4	5	6	7	8	9
1.	Tamil	10	5	—	—	—	—	15
2.	Linguistics	2	1	—	—	—	3	6
3.	Thirukkural Chair	2	1	—	—	—	—	3
4.	Journalism	—	1	—	—	—	—	1
5.	Sanskrit	1	—	—	—	—	—	1
6.	a) Malayalam	2	—	—	—	—	—	2
	b) Malayalam Chair	1	—	—	—	—	—	1
7.	Telugu	1	—	—	—	—	—	1
8.	Kannada	1	—	—	—	—	—	1
9.	English	3	1		—	—	—	4
10.	Economics	4	1	—	—	—	—	5
11.	History	5	2	—	—	—	—	7
12.	Political Science	2	1	—	—	—	—	3
13.	Sociology	2	1	—	—	—	—	3
14.	Education	3	1	—	—	—	—	4
15.	Mathematics	6	2	—	—	—	—	8
16.	Physics	4	5	—	1	—	—	10
17.	Chemistry	6	5	—	6	—	—	17
18	Biology	4	8	—	37	6	—	55

1	2	3	4	5	6	7	8	9
19.	Energy Science	2	—	1	3	—	—	6
20.	Geography	3	1	—	—	1	—	5
21.	Management	2	—	—	—	—	—	2
22.	Commerce	—	1	—	—	—	—	1
23.	Library Science	2	—	—	—	—	—	2
24.	Gandhian Studies and Ramalingar Philosophy	2	—	1	—	—	—	3
25.	Research Associate Energy (Science)	4	—	—	1	—	—	5
26.	ANJA Endowment Fellow	1	—	—	—	—	—	1
27.	ICC & CE : Tamil	2	—	—	—	—	—	2
28.	Economics	2	—	—	—	—	—	2
29.	Political Science	2	—	—	—	—	—	2
30.	P.G. Extension Centre, Palayamkottai							
	a) Chemistry	2	—	—	—	—	—	2
	b) Sociology	1	—	—	—	—	—	1
31.	University Fellowship in the Affiliated Colleges :-							
	Thiagarajar College :							
	a) Tamil	1	—	—	—	—	—	1
	b) Zoology	1	—	—	—	—	—	1
	VOC College :							
	Chemistry	2	—	—	—	—	—	2
	Alagappa College :							
	Tamil	2	—	—	—	—	—	2

1	2	3	4	5	6	7	8	9
	S.T. Hindu College :							
	Tamil	2	—	—	—	—	—	2
	APA Arts College :							
	Botany	2	—	—	—	—	—	2
	V.H.N.S.N. College :							
	Chemistry	2	—	—	—	—	—	2
	Grand Total	96	37	2	48	7	3	193

The following theses have been accepted by the University for the Ph. D. / M. Litt. Degree.

TABLE VIII

Sl. No. (1)	Name of the Candidate (2)	Title of the thesis for the degree (3)	Name of the Supervisor (4)
1.	Tmty. T. Anitha Sironmani	"Molecular Basis of Development and Differentiation in Silkworm : Studies on the Post - transcriptional and Translational regulation of Fibroin gene Expression".	Dr. G. Shanmugam
2.	Thiru SM. Pechimuthu	"Studies on the Digestive System of bursa spinosa (Lamarck) (Bursidae : Mesogastropoda : Mollusca)".	Dr. R. Natarajan
3.	,, C. Petchinatha Pillai	"Correlation Analysis in Organic Chemistry-A study of the Kinetics of the Reactions of Dia-zodiphenylmethane with substituted. Phenoxyacetic and Phenylsulphonylacetic Acids and of the Kinetics of their Anions with Picryl Bromide".	Dr. P. Ananthakrishna Nadar & Dr. P. Shanmugam
4.	,, S. John Sahayam	"Indo-Anglian Writers (R. K. Narayan)".	Prof. T. V. Subbarao & Dr. K. Chellappan
5.	,, M. Balasubramanian	"Time and Self in the Novels of Virginia Woolf".	Dr. K. Chellappan
6.	,, P. Rengasamy	"A Critical Study of Shakespeare in Tamil Translation".	Dr. V. Sachithanandan

1	2	3	4
7.	Selvi T. R. Meena	"சமுதாயப் பின்னணியில் வட்டாரப் புதினங்கள்"	Dr. N. Manickam
8.	Thiru V. Shanmugam	"A Study of the Operational Efficiency of Co-operative Milk Supply societies in Madurai District".	Dr. M. O. Mathew & Dr. O. R. Krishnaswamy
9.	,, A. Maran	"RNA Processing and gene expression — isolation and characterisation of an RNA processing Enzyme from Pennisetum typhoides".	Dr. G. Shanmugam
10.	,, C Thirunavukkarasu	"Studies on Cardiac Hypertrophy : Biogenesis and Bio-energetics of Mitochondria during cardiac Hypertrophy",	Dr. C. Rajamanickam
11.	Thiru A. Varadharaj	"Some contributions to the Electrochemistry of Gallium Cyclic Voltammetric studies in alkali and — alkaline gallate Solutions".	Dr. G. Prabhakara Rao
12.	,, T. Vasudevan	"Investigations on Interface Electrochemistry — Iron Acid Inhibitor system studies".	Dr. P. B. Mathu
13.	,, R. Thulasidhass	"Investigations in X-Ray crystallography".	Dr. R.K. Rajaram
14.	Selvi S. Lakshmi	"Mithilaipatti Kavirayarkal".	Dr. A. Viswanathan
15.	Thiru K. Veluchamy	"திருமந்திரம் ஒரு திறனாய்வு"	Dr. G. Sivagurunathan
16.	,, D. Albert Johnson David Bruce	"Voting Behaviour and Political Participation with reference to Madurai District".	Dr. S. Subramanian

1	2	3	4
17.	Thiru S. Thangasamy	"Ability Personality and achievement of vocational stream students".	Dr. (Mrs) J.K. Pillai
18.	Tmty. Mercy Henry	"The Trends of Trade between U.S.A. and India (1965-75)	Prof. K.S. Sonachalam
19.	Thiru D.V.P. Raja	"Administrative problems and prospects of social service organisations in Madurai".	Dr. G.B. Rao & Dr. B.R K. Raju
20.	,, D. Rajaji	"Studies on Artificial Membranes : Interaction with some pharmacologically active Lipophilic Compounds".	Dr. J. Jayaraman
21.	,, N. Chennappan	"Studies in Algebra and Analysis, Amenable Semi-Groups".	Dr. Aravamudhan & Dr. K.S. Chandrasekar Rao
22	,, K. Srinivasan	"Kinetics of Electrode Processes : Electro – Reduction of Maleic and Fumaric Acids in Mercury Electrodes in Aqueous Solutions".	Dr. V.K. Venkatesan
23.	,, G. Venkatachari	"Investigations on the Mechanism of Corrosion and its Inhibition".	Dr. K.S. Rajagopalan
24.	,, G. Poyyamoli	"Ecophysiological Studies on energetics of chosen organisms (Studies on Diel Emergence Patterns of some tropical aquatic insects".)	Dr. T.J. Pandian

1	2	3	4
25.	Thiru Dilip Salvaram Joshi	"Light and the circadian rhythm in the bat Hipposideros speoris".	Dr. M. K. Chandra-shekaran
26.	,, J.P. Arockiam	"Studies on Camaenidase (Gastropoda) from South India"	Dr. T.J. Pandian
27.	Selvi S. Padmavathy	"Molecular Basis of Differentiation in Bacillus on the Correlation of Polymyxin Biosynthesis and sporulation in bacillus Polymyxa-24598. A Comparative Study of the High and Low Polymyxin Producing trains."	Dr. Kunthala Jayaraman
28.	,, V. Valliammai	"Studies on Chloroplast Development of Chlorella Prototchecoides".	Dr. A. Gnanam
29.	Thiru S. V. Hariharan	A Comparative Cost Programme"	Dr. John D.K.Sundar Singh.
30.	Selvi K. Kundhavi	"Distribution of Fertilisers in Tamilnadu (with special reference to Madurai District)"	Dr. M. Gajalakshmi
31.	Thiru G.R. Parthasarathy	"A study of slums in selected urban settlements": Madurai District, Tamilnadu.	Dr. K.S. Gopalakrishnan
32.	Selvi L. Neelabai	"Administration of temple lands and properties with reference to Meenakshi Temple in Madurai City".	Dr. S. Subramanian

1	2	3	4
33.	Tmty. N. Shantha Apte	''தமிழ்ச் சிறு கதைகளில் காந்தீயத்தாக்கம் (காந்தி வழிக் கதைகள் என்ற தொகுப்பு நூலின் அடிப்படையில்)	Dr. Rm, Periakaruppan
34.	Thiru V. Gurunathan	''கம்பராமாயணத்தில் அகத்திணையாட்சி''	Dr. A. Viswanathan
35.	,, S. Lakshminarayanan	"A Study of Kasi Viswanathaswami Temple at Tenkasi (from Epigraphic and other sources,".	Dr. A. Kamatchinathan
36.	,, V. Kandaswamy	''பழந்தமிழ் இலக்கியங்களில் காஞ்சித்திணை''	Dr. C. Balasubramanian & Dr. D. Andiappa Pillai
37.	,, C. J. James	"A Comparative study of suicides in Tamilnadu and Kerala with special reference to females"	Dr. R. Venkatarathnam
38.	Thiru P. Iyyadurai	"A Contrastive study of Auxiliary Verbs in English and Tamil with speical reference to the Aspectual systems".	Dr. Agesthialingom
39.	,, Venkatachalam Udhyakumar	"Studies on the Immune Response to Outer Membrane Proteins of Salmonella Typhimurium in mice."	Dr. VR. Muthukaruppan.
40.	,, G. Hudson Retnaraj	"History of Malabar (from 1919 to 1947)	Dr. B. Sobhanan
41.	,, H. Duraiswami	"Social Consciousness in Modern Hindi and Tamil Poetry"	Dr. S.N. Ganesan & Dr. Gulam Rasool

1	2	3	4
42.	Thiru A. Alfred Gurusingh	"A study of some sequence spaces and their Matrix Transformations".	Dr. George Abraham & Dr. K. Chandrasekhar Rao
43.	,, B. Rajendran	"Topics in Graph Theory : Antipodal Graphs".	Dr. Aravamudhan
44.	Selvi V. Uma Bai	"Development of Chloroplast structure and function with reference to membrane Proteins"	Dr. A. Gnanam
45.	Thiru G. Gopalan	"Regulation of Mitochondriogenesis in Yeast- Effect of exogenous hemin on Mitochondriogenesis during glucose repression. derepression in Saccharomyces cerevisiae".	Dr. C. Rajamanickam
46.	,, K. Rajasekaran	"Applicability of Linear free energy relationship to reactivity of organic compounds (separation of induction and resonance effects)".	Dr. C. Gnanasekaran
47.	,, T. Chandraguru	"Some Biochemical Aspects of the Root - Knot Mematode Problem in an Economically important host plant"	Dr. S. Kannan
48.	,, K. Venkataraman	"Taxonomical and Eco - Physiological studies of Mayflies (Ephemeroptera :Heptageniidae)".	Dr. S. Mathavan
49.	Tmty T. Premeela	Protein and Nucleic Acid Metabolism in "Eukaryotic Cells : "Studies of INA Binding Proteins of Human placenta".	Dr. G. Shanmugam

1	2	3	4
50.	Selvi. R. Jamuna	"Insecticidal Factor(s) from Bacillus sphaericus. Studies on the Formation Characterization and Field Evaluation of the Diocide".	Dr. Mrs Kunthala Jayaraman
51.	Thiru. K. Shiva Kumar	Hormonal Regulation of Mitochondrial Functions	Dr. J. Jayaraman
52.	Tmty. S K. Valli	"Zeitgeber Interactions and Circadian system in Funambulus palmarum".	Dr. M.K. Chandrashekaran
53.	Tmty. G. Dhanush Kumari	"The recent trends in areâ and output of groundnut in relation to current and future demand in Tamil Nadu".	Prof. K. S. Sonachalam & Dr. P. V. Rajakumar
54.	Thiru. S. Velayudha Perumal	"Wage Structure in the Plantations in Kanyakumari District".	Dr. John D. K. Sunder Singh
55.	Tmty. N. Manonmoney	Econcmics of Cropping Pattern in Madurai District	Dr. T. Valuthi Varaguna Singh
56.	Thiru. G. Velan	"Trade Union Movement in the Cotton Textile Industry of Madurai District",	Dr. M. Gajalaksmi
57.	Selvi T. S. Mira Devi	"Temple Administration and Culture Under the Later Pandyas (1200 - 1500) A Case Study of the Temples of Thenkasi",	Dr. K. R. Hanumanthan & Dr. M. G. S. Narayanan
58.	Tmty. K. Vivekaranda	The Beginnings of Indo-Anglian Poetry - A Revaluation".	Dr. V. Sachithanandan

1	2	3	4
59.	Thiru. M. Palani	"Short Stories Published in the Sixties-by Thamarai a Monthly - A Critical Study".	Dr. Sp. Annamalai
60.	Tmty. M. Devi	"காப்பியப்பின்புலத்தில் கண்ணகியும் சீதையும் ஓர் ஒப்பு நோக்கு".	Dr. Sp. Annamalai
61.	Selvi S. Sasireha	"தமிழ் இதழ்கள் (1979) காட்டும்மகளிர் நிலை".	Dr S. Natarajan
62.	Thiru. M. Balasubrahmanyan	"Administration and Social Life Under Later Pandyas".	Dr. K.R. Hanumanthan & Dr. C.E. Ramachandran
63.	Thiru M. Mohamed Mustafa	"Economics of Cardamom Plantations in Kerala State".	Dr. M.S. Lakshmanan
64.	Tmty. K. Meena Kumari	"நா. பிச்சைமூர்த்தியின் படைப்புகள்-ஓர்ஆய்வு".	Dr. S. Natarajan
65.	,, K. Dhulasi Birundha	An Economic Study of profits in spinning and weaving mills in Madurai City".	Dr. John D. K. Sunder Singh
66.	Thiru S. Srinivasan	"ஆழ்வார் பாடல்களில் அணிகள்".	Dr. T. Murugarathinam
67.	Tmty. R. Poongothai	"Milton and Ilanko : A Comparative Study".	Dr V. Sachithanandan
68.	Thiru K.L. Shyam Sundar	"Natural Growth and Polysacharide Production in Some Abundant Red Alage (Rhodophyta) From South Eastern Shores of India".	Dr. K. Subbaramaiah
69.	,, P. Somasundaram	"Ecophysiological Studies on some Insects".	Dr. S Chockalingam
70.	,, E. Papavinasam	"Investigations in X-Ray Crystallography"	Dr. S. Natarajan

1	2	3	4
71.	Selvi. R. Kasthuri	''நாமக்கல் கவிஞர் படைப்புக்கள்-ஓர் ஆய்வு''.	Dr. N. Jayaraman
72.	,, N. Jayasankari	Isolation and Characterization of Mutants in Nitrogen - Fixing Blue - Green Algae and their influence on paddy plant oriza Sativa IR-20	Dr. S. Shanmuga Sundaram
73.	Tmty. R Philomine Aruna	"Biology of *Echis carinatus*"	Dr. S. Krishnaswamy & Dr. M.V. Rajendran
74.	Thiru T. Mariappan	"Protein Synthesis in the Chloroplasts".	Dr. A. Gnanam
75.	Tmty. J. Karunyal	"Effects of Pyridazinoe Compounds on Chlorella".	Dr. Salil Bose
76.	Thiru. P. Suyambu	"Tolkappiyamum Ilakkanavilakkamum Oru Oppayvu (Eluttum Collum".)	Dr M. Israel
77.	,, M.T. Iyyappan	"Natrinaiyil Agathinai Kotpadugal"	Dr. N. Jayaraman
78.	Tmty. S. Sethumani	"Values in Tamil Novels (1961 to 1978).	Dr. RM. Periakaruppan
79.	Thiru V. Sethuramalingam	"A Study of the folk songs of Ramanathapuram District"	Dr. RM. Periakaruppan
80.	,, R. Ponnu	"Bhakti Cult and Its Social Impact with special reference to Tamil Nadu.	Dr. Sobhanan
81.	,, M.V. Satchitanandam	"A Study of consumption function and related aspects".	Independent

1	2	3	4
82.	Tmty. M. Susila	"The Cankam Literary Conventions in Kambaramayanam"	Dr. RM. Periakaruppan
83.	Thiru P. Subramaniyan	"Thaipoosam and Panguni Uthiram Festivals in Palani Murugan Temple"	Dr. S. Natarajan
84.	Tmty. R. Mangaiarkarasi	"Village Novels in Tamil"	Rev. Fr. V.M. Gnana-pragasam & Dr. S. Natarajan
85.	Thiru P. Gopalsamy	Study on Interconnected Grid Systems"	Dr. V. Srinivasagopalan
86.	Tmty. C. Sarada Devi	The History of the Nadars"	Dr. B. Sobhanan& Dr. S. Natarajan
87.	Thiru N. Balakrishnan	The History of the Dravida Munnetra Kazhagam, 1949 - 1977"	Dr. S. Manickam
88.	,, R. Rajasekar	Studies on the HLA System of Different Population Groups in Madurai".	Dr. RM. Pitchappan
89.	Tmty. V. Chandrakantha	Studies on Seed-insect Interactions"	Dr. S. Mathavan
90.	Thiru G. Virgin Sigamani	A Study of Local Government Politics of Panchayats & Development with Special Reference to Thirupparankundram Panchayat Union in Madurai District".	Dr. C. A. Perumal
91.	,, K. Chidambaram	A Study of the Handloom Pure Silk Industry in Tamil Nadu.	Dr. M. A. Arulanandam
92.	,, K. Subrahmanyam	Swami Vivekananda's contribution to Indian Prose literature in English".	Dr. K. S. Ramamurthy & Dr. T. Prabhakar

1	2	3	4
93.	Thiru S. Ravindranathan	Modes of characterization in the major plays of Bernard Shaw".	Dr. K. Chellappan & Dr. T. Prabhakar
94.	Tmty. N. Kanthimathy Lakshmi	Literary Thesis of Tholkappiam and Ainkurunuru"	Dr. N. Jayaraman
95	Tmty. N. Susila	Content Analysis in New Poetry	Dr. S. Natarajan & Dr. V. P. Devadatta
96.	Tmty. R. Rengammal	Srivilliputhur Vadaperungkoil and Andal Koil	Dr. S. Venkataraman
97.	Selvi V. Renuga Devi	Structural Typology of Tamil and English — A Comparative Study.	Dr. M. Israel
		M. Litt.	
1.	Thiru R. Pandian	Land Revenue Administration in Dindigul A. D. 1970 — 1818	Dr. K. Nambi Aruran

CHAPTER - IV

CAMPUS AMENITIES

Building Division :

Thiru A. Ramanujam, Assistant Executive Engineer took charge as the University Engineer after the completion of the term of Thiru S. Jagannathan. The work connected with the building activities of the University were carried out with the services of some of the Engineering staff on deputation.

The following major buildings were completed during the year :

1. Additional Physics Block
2. Additional Chemistry Block
3. Botanical Garden
4. Animal House
5. Horticultural Nursery and Store Room.

The following buildings are nearing completion :-

1. Additional accommodation to Men's Hostel,
2. Additional building for Dr. T.P.M. Library.
3. Immunology building.

The construction of the following buildings are under progress :

1. Additional facilities to Mathematics department.
2. Additional accommodation to Women's Hostel

The foundation stone for construction of the COSIST building was laid on 6-12-1986 by Dr. Yash Pal, Chairman, University Grants Commission New Delhi.

Other minor works at the University Campus, City Complex, and at the building at Palayamkottai Extension Centre were also attended to by the Engineering division during the year.

Children's Library:

The National Service Scheme of Madurai Kamaraj University Women's Wing has started a Children's Library for the use of the campus children. The objectives of the project are:

i) to enable the children to spend their leisure hours constructively;

ii) to instil in them a desire for learning;

iii) to provide them with an opportunity to come into contact with the modern technological advancements; and

iv) to create in them social awareness.

The Library consists of two sections. In one, children are provided with reading materials that will inform, educate and entertain them. In the other, there are educational toys and simple scientific experiments which are meant to stimulate their imagination and their innate inventive instinct. The University has proposed to install a small computer for the children to play with.

The Library was declared open on 11th November, 1986, by Thiru P.C.M. Sundara Pandian, Managing Director, M/s. Pandyan Hotels Ltd. Madurai, Prof. S. Krishnaswamy, Vice-Chancellor of the University presided. Tmty. Prameela Krishnaswamy, President, Ladies Club, Palkalai Nagar, distributed the identity cards to the members of the Library. Prof T.J. Pandian, Special Officer (Planning & Development) of the University welcomed the gathering. Dr. L. Thara Bhai, proposed a vote of thanks.

Hostels :

There are three Men's hostels with a strength of 450 students and two Women's hostels accommodating 266 students at the Campus.

Dr. S. Shanmugasundaram, Reader, School of Biological sciences and Dr. (Mrs) Thara Bai, Reader, Department of Sociology continued to be the Wardens of the Men's and Women's Hostels respectively.

Madurai Kamaraj University Central Co-operative Stores :

The Stores completed its 18th year of service in 1986. The total number of members of the stores is 2466. The stores caters to the needs of the staff of the University, affiliated colleges and the residents of the Staff Quarters. It also supplied essential commodities to the family card holders.

Madurai Kamaraj University Co-operative Printing Press :

The Printing Press undertook printing and other allied works for the University, Institute of Correspondence Course and Continuing Education and affiliated colleges. The University has subscribed a sum of Rs. 5 lakhs as share capital and the number of members of the press is 35.

Transport facilities :

Six staff buses were used for the commutation by the staff. The PRC city buses are also available to Palkalainagar. In addition, the fast passenger train between Madurai and Bodinayakkanur also stops at Palkalainagar, Railway station.

Health Centre :

This centre continued to function in the University campus with a Medical Officer. There is also a Lady Medical Officer who takes care of the women students in the hostel. The staff residing in the University campus and the villagers were benefitted by the services rendered at the centre.

University Township :

The Government has set up an office at Palkalainagar to work for the implementation of the University Township Scheme.

CHAPTER - V

DEVELOPMENT ACTIVITIES

VII Plan Development Proposals

The University has submitted a revised VII Plan proposal to the U.G.C. The proposals reflect the plans and aspirations of the University to become one of the premier centres of higher learning in our country. An overall estimate of Rs. 2.61 Crores, including the State Government matching share of Rs. 43.00 lakhs, is proposed. This is excluding the assistance already approved by the University Grants Commission for the VII Plan development programmes to the tune of Rs. 54.25 lakhs and the matching share of Rs. 12.25 lakhs by the State Government.

The following is the abstract of the plan proposals :

Sl. No.	Scheme	U.G.C. Share	State Share	Total
		(Rupees in Lakhs)		
1.	Buildings	53.00	43.00	96.00
2.	Staff	18.75	...	18.75
3.	Books and Journals	12.00	...	12.00
4.	Equipments	10.50	...	10.50
5.	Others	123.75	...	123.75
	Total	218.00	43.00	261.00

I. A. S., Guidance Programme :

As in the past, the University has organised guidance classes for the General Studies Paper of the Preliminary examinations of the I. A. S. examinations during the year 1986 in the following centres :

1. Evening College, Madurai Kamaraj University, Madurai.
2. A. N. J. A. College, Sivakasi,

3. Rajapalayam Raju's College, Rajapalayam.
4. V. V. Vanniaperumal College for Women, Virudhunagar.
5. St. Xavier's College, Palayamkottai.
6. The Aditanar College of Arts & Science, Tiruchendur.
7. Kamaraj College, Tuticorin.
8. Holy Cross College, Nagercoil.
9. S. T. Hindu College, Nagercoil.

Details of Seminars, Conferences and Symposia held during 1986:

A three day seminar on "Issues in second Language learning" was held in Panditamani arangu from 24th to 25th January, 1986 in collaboration with the British Council Division, Madras. The Seminar was inaugurated by Prof. S. Krishnaswamy, Vice - Chancellor, Madurai Kamaraj University and Dr. Ellis, London and Dr. N. Prabhu, British Council, Madras, conducted the sessions for the benefit of teachers. Dr. Rosy D. Souza, Professor of English was the Organiser.

An All India Symposium on "Physiological Basis of Health" was held in the School of Biological Sciences, Madurai Kamaraj University from 10-12th February, 1986. Prof, S. Krishnaswamy, Vice-Chancellor, Madurai Kamaraj University inaugurated the Symposium and Dr. Deshpande, Advisor, United Nations Environment programme, Bangkok delivered the key-note address. Over 100 Scientists from all over India participated in the Symposium. The Symposium was arranged with the financial assistance of Madurai Kamaraj University, Department of Ocean Development, New Delhi, C. S. I. R., and U. G. C. Prof. T. J, Pandian, Madurai Kamaraj University organised the symposium.

A Seminar on "Changing urban landscape and emerging environmental problems" was organised on 8th and 9th March, 1986 by the Department of Geography, Madurai Kamaraj University in association with the Indian Geographical Society, Madras. The Seminar was presided over by Prof. N. Balakrishna Reddy, Prof. of Geography, Sri Venketeswara University, Tirupati. The key-note address was delivered by Prof. S. Krishnaswamy, Vice-Chancellor, Madurai Kamaraj University. Hundred participants attended the seminar. The seminar was financed by the Madurai Kamaraj University.

A Department of Science and Technology sponsored Winter School entitled "Winter School for Research Techniques in UV B-Radiation effects

and Mechanisms" was held in the School of Biological Sciences from 24th February to 15th March, 1986. Sixteen participants selected on All India Level attended the programme. The winter school was organised to give a detailed training on solar UV measurements and to demonstrate the effect of enhanced UV on plants. In order to encourage the participants to work on this line, all the participants were provided with a Radiation monitor and special UV lamps, each set costing approximately Rs. 4,500/-

A University sponsored student's workshop on the use of reference books was held on 13th and 14th March, 1986 at the Department of Library and Information Science of the University. The workshop was inaugurated by Prof. S Krishnaswamy, Vice-Chancellor Madurai Kamaraj University Fortyeight students from different colleges attended the workshop.

One day University seminar on "Energy, Environment and Natural Resources" was held on 26th March, 1986 in the School of Energy Science of the University Sixty participants attended the seminar.

The XX Annual Conference of Indian Association for American Studies was held at the Madurai Kamaraj University from 24th to 26th April, 1986. Dr. S. Subramanian, Prof & Head, Department of Political Science was the local Secretary of the Conference. The Conference was financed by the U.G C. and the Madurai Kamaraj University. The inaugural address was delivered by Mr. Gordon S. Streeb, Deputy Chief of Mission, American Embassy, New Delhi and the presidential address was delivered by Dr S. Bhaskaran, President, I.A.A.S. Dr. John Hurd Director, ASRC, Hydrabad and Dr. John D. Stemple, Consul General, Madras participated in the Conference. A total of 75 participants attended the conference.

A National workshop on Maintenance and Improvement of standard in Higher Education sponsored by the U. G. C was held from 28th to 30th April, 1986 at the Madurai Kamaraj University. A total of 32 participants drawn from different disciplines constituting University Professors, Principals of Colleges and Vice-Chancellors participated in the workshop. Dr. S Krishnaswamy, Vice-Chancellor, Madurai Kamaraj University was the Director of workshop and Dr. (Mrs) J. K. Pillai, Prof. of Education was the Convener. The workshop was inaugurated by Prof N. Ananthapadmanaban, Director of Collegiate Education, Madras. Prof. D. B. Desai, Centre of Advanced Study in Education, Baroda

presented the theme paper. Dr B. B. Sundaresan, Vice-Chancellor, University of Madras delivered the valedictory address.

A Statelevel seminar on Comparative Literature sponsored by UGC was held at the Madurai Kamaraj University from 15th to 17th May, 1986. Dr. V. Sachithanandan, Prof. & Head, Dept. of English was the Director of the Seminar. The seminar was inaugurated by Dr. S. Krishnaswamy, Vice-Chancellor, Madurai Kamaraj University. A total of 40 participants from the Universities and Colleges of the State attended the seminar. Two distinguished Tamil Writers Mr. P. G. Soundarajan, (Chitti) and Mr. Sivapathasundaram took an active part in the discussions.

A training programme on "Statistics for Biologists" was organised under the auspices of Biological Curriculum Development Centre from 4th to 16th August, 1986. In addition to the fifteen research scholars of the School of Biological Sciences, twenty teachers from all over India participated in the training programme. The programme was inaugurated by Dr. Tmty. Lalitha Kameswaran, Director of Medical Education, Govt. of Tamilnadu, Dr. S. Krishnaswamy, Vice-Chancellor, Madurai Kamaraj University presided over the inaugural function. Experts from Kerala University, Kerala Forest Research Institute, Peechi, Central Marine Fisheries Research Institute, Madras, APA College, Palani delivered special lectures. The training programme covered a major portion of biostatistics and emphasis was on application on statistics in Biology. Lectures were also delivered on application of computer to solve the statistical problems. The programme was organised by Dr. S. Mathavan and Prof. T. J. Pandian.

The School of Energy, Environment and Natural Resources of the University organised the National Solar Energy Convention, 1986 on 13th to 15th September. The convention was preceeded by one day workshop on 'Thermal Storage'. The convention was inagurated by Her Excellency Ms. Kumud Ben Joshi, Governor of Andhra Pradesh under the presidentship of Shri J. C. Kapur, President, Solar Energy Society of India. Prof. Maheswar Dayal, Secretary for the Department of Non-Conventional Energy Sources, Government of India delivered the keynote address. Prof. S. Krishnaswamy, Vice-Chancellor welcomed the gathering. Dr. T. M. Haridasan, Prof. & Head, School of Energy Sciences of the University proposed vote of thanks. The theme of the convention was Solar Energy - Technology assessment. About 350 delegates from India and abroad participated in the convention The technical sessions were on the following topics:

i) Case studies

ii) Environmental impact and resource assessment

iii) Biomass and wind

iv) Photovoltaics.

An exhibition on Solar Energy devices and products was arranged during the convention. Essay and elocution competitions were conducted for the students of schools and colleges.

The XV All India Conference of Linguistics was organised by the Department of Linguistics in collaboration with the Linguistics Society of India from 5th to 7th September, 1986. About 120 participants from all over India attended the Conference. Dr. S. K. Verma, the president of the Linguistics Society of India presided over the inaugural session and delivered the keynote address. Professor Shanmugam Pillai inaugurated the Conference. About seventy research papers were presented in different sessions and were discussed by the participants. Two Symposia one on "Language and National Integration" and the other on "Historical Prespectives of Tamil Grammatical Tradition" were also conducted successfully. Hon'ble Minister for Education, Govt. of Tamilnadu Thiru C. Aranganayagam delivered the valedictory address. Dr. S. Krishnaswamy, Vice-Chancellor, Madurai Kamaraj University presided Dr. D. P. Pattanaik, Director, Central Institute of Indian Languages, Mysore gave a special address in the valedictory session.

An All India Short-term course on Instrumentation sponsored by the University Grants Commission was organised under the auspices of University Science and Instrumentation Centre from 6th to 25th October, 1986. Twenty three participants from all over India participated in the training course. Dr. S. Krishnaswamy, Vice-Chancellor, Madurai Kamaraj University inaugurated the course. Dr. S. Selvavinayagam, Bombay, Dr. Ayyadurai, Dr. A. Shanmugam S. Palaniandavar, Trichy, Dr. C. Rajamanickam, Madurai and Dr. Sundaram, Virudhunagar gave guest lectures.

A one-day seminar on Pace Setting Schools was organised in the Department of Education on 27-10-1986 Twenty nine scholars participated in the Seminar. Dr. K. S. Chandrasekaran, Dr. S. Subramanian, Dr. M. Shanmugam Pillai and Dr. R. Venkatarathnam chaired the sessions.

A two-day training programme for Computer Management for the Principals of affiliated colleges was held on 6th and 7th Nov., 1986 in this

University and 23 Principals of affiliated colleges of the University participated in the programme.

A Seminar on "Value orientation to Teacher Education" sponsored by the University Grants Commission was held under the auspices of Depart ment of Education, Institute of Correspondence Course and Continuing Education from 4th to 6th November, 1986. Thirtyfour teacher educators from 23 colleges of Education from Tamilnadu and Pondicherry region participated in the Seminar. Prof. S.R. Rahidekar, Bangalore, Dr. (Mrs) Sekar, Madras Dr. M.A. Thangaraj, Madurai, Dr. (Mrs) S. Lakshmi, Salem and Dr. A. Pushparaj, Madurai were the resource persons. The inaugural session was presided over by Dr. T J. Pandian, Special Officer, Madurai Kamaraj University. The valedictory address was delivered by Dr. (Mrs). J. K. Pillai.

A National Symposium on "The life and legacy of Pandit Jawaharlal Nehru" was held from 13th to 15th October 1986 with the financial assistance from the University Grants Commission. Hon' ble Thiru Rm. Veerappan Minister for Hindu Religious and Charitable Endowments, Prof. S.V Chittibabu, Vice-Chancellor, Annamalai University, Dr S. Krishnaswamy, Vice-Chancellor, Madurai Kamaraj University. Prof. K. Kamalanathan, V. K. Sukumaran Nayar, R.N. Trivedi and old students participated in the inaugural function There were five panels on different aspects of the life of Nehru, each of which was participated by eminent academics and scientists Mention must be made of the panel on Science and Technology, wherein Dr. S. Krishnaswamy, Dr. C. V. Sundaram, Dr. G. Venkataraman of Kalpakkam, Atomic Science Centre, Dr. M.K. Chandrashekaran and Dr.S. Bhaskaran participated. In all 45 delegates from other Universities in India and colleges from Madurai Kamaraj University participated. Dr. S, Subramanian was the Director of the Symposium

An orientation programme for the teachers of the post graduate colleges and the departments of the University was organised on 8th December, 1986 in the University. One hundred and four teachers participated in the programme Prof. Kanagasabapathy, Convener, IAS Committee, Prof. (Tmty) J K, Pillai, Director, ICC & CE, Prof. S. Subramanian, Prof. of Political Science and Prof. T. J. Pandian, Special Officer (Planning & Development) addressed the participants explaining the salient points of the IAS and other Central Service examinations and the role of the teachers could play in motivating the students to take up the competitive examinations. Many questions were

raised by the participants which were suitably answered. Suggestions were also made by the participants.

An All India Short - term Institute in Lexicography sponsored by the University Grants Commission was held under the auspices of Department of Linguistics of the University from 3rd to 21st November, 1986. Thirty seven participants (25 outstation and 12 local) from all over India participated in the institute. Twelve eminent scholars from various institutions of higher learning served as resource persons. Dr. M. Shanmugam Pillai, formerly Head of the department of Tamil, Madurai Kamaraj University presided over the valedictory function and Dr. B.C. Balakrishnan, Chief Editor, Malayalam Lexicon, University of Kerala, Trivandrum gave the valedictory address.

The Department of Library and Information Sciences of the University organised special lectures on Library Automation on 13th and 14th November, 1986. The lecture series was inagurated by Prof. T.J. Pandian, Special Officer, Madurai Kamaraj University. Dr. Devadason, Documentation Research and Training Centre, Bangalore and Thiru N.V. Sathyanarayana of Informatics, Bangalore were the two chief resource persons. College Librarians, students in library and information science and information officers from the Agricultural college numbering about 70 participated.

An "Environmental awareness campaign" sponsored by the department of Environment, Govt. of India with a financial assistance of Rs. 50,000/ was organised by the School of Energy, Environment and Natural Resources from 19th November to 18th December, 1986. The programme was inaugurated by Thiru R. Varadarajulu, District Collector on 19th November, 1986 under the presidentship of Dr. S. Krishnaswamy, Vice-Chancellor, Madurai Kamaraj University. This programme included workshops, guest lectures, essay and elocution competitions, slide projection and film shows. An Environmental Trail was laid at the Pandyan Hotel. Slides were shown in cinema theatres. Ten special lectures were broadcast over AIR, Tiruchi. A special book of experiments has also been published.

The Sixth Annual Conference of the Indian Council of Chemists was organised at the Madurai Kamaraj University from 27th to 29th December 1986. Over 400 delegates from various parts of India attended the conference. The inaugural meet was presided by Prof. B.M. Shukla, President of the ICC and former Vice-Chancellor Ghorakpur University. The meeting was inaugurated by Prof. T.R. Govindachari, formerly Director of CIBA-GIEGY Research Centre, Bombay and the keynote address was delivered by Dr. G. Thyagarajan, Director Central Leather Research Institute, Madras. The Conference was financed by University Grants Commission, DST and Madurai Kamaraj University.

An advanced level training course on "Structure, Function and Genetics of Chloroplasts" sponsored by the Department of Biotechnology, Govt. of India was held at the School of Biological Sciences from 24th November to 13th December, 1986. Prof. A. Gnanam, Vice-Chancellor, Bharathidasan University and Dr. G. Kulandaivelu were the organisers. The Department of Biotechnology contributed a sum of Rs. 2,37,900 for this training course. The programme was inaugurated by Dr. S. Krishnaswamy, Vice-Chancellor, Madurai Kamaraj University. Totally 14 participants selected at all India level participated in the course. Special invitees for this programme were Dr. K. Chandrasekaran, Centre for Cellular and Molecular Biology, Hyderabad, Dr. P.V. Sane, National Botanical Research Institute, Lucknow and Prof. P. Mohanty, Jawaharlal Nehru University, New Delhi,

A University Grants Commission sponsored Refresher Course on "Modernisation of Indology with special reference to Tamil Studies" was held from 15th to 20th December, 1986 under the auspiecs of Department of Tirukkural Chair of the University. Dr. T. Murugarathnam was the Directer of the course.

CHAPTER - VI

FINANCE

Accounts of the University for the year 1986-'87.

Grants from the Government of Tamilnadu :

The Government of Tamilnadu sanctioned a sum of Rs. 27/- lakhs towards Block Grant for the year 1986-'87 to be drawn in four equal instalments of Rs. 6.75 lakhs. Besides, the Government of Tamilnadu has also sanctioned the following grants :

		Rs.
1.	Grant for the year 1986-'87 to the Madurai Kamaraj University towards the improvement of P. G. Extension Centre, Tirunelveli.	5,00,000
2.	An advance grant of DA, HRA and CCA both teaching and non-teaching staff for the year 1986-'87.	28,42,000
3.	Reimbursement of expenditure incurred towards the salary of staff employed IV Plan development scheme 1977-78 to 1980-'81.	6,64,627
4.	Reimbursement of expenditure incurred towards the salary of staff employed under V Plan Development scheme for the year 1981-'82 to 1984-'85.	39,20,967
5.	Grant for Tamil Academy.	15,000
6.	Grant for holding the 15th All India Conference of Linguistics at Madurai.	10,000
7.	HLA Tissue typing Research	1,810
8.	"Information on the effect of nutritious noon - meals programmes" Dr. (Mrs.) J. K. Pillai	40,000

Other Grants From U. G. C.

1.	Summer Institutes and Seminars.	4,28,540
2.	J. R. F. - Direct Award	27,400
3.	National Fellowship	30,890

4.	Faculty Improvement Programme	48,745
5.	Financial Assistance to teachers	22,150
6.	Career Award	40,000
7.	Newer application of the subjects and exam. reaction	15,000
8.	Special assistance to Mathematics department	12,000
9.	Special assistance to Biology department	3,00,000
10.	Travel grant	13,252
11.	College Development Council	1,00,000
12.	U. G. C. Unit	54,000
13.	Un-assigned grant	54,573
14.	Research Associateship	5,000
15.	Publication of Journals	75,000

U. G. C. SCHEMES :

		Rs,
1.	"Scope for the Utilization of Caffeine and theophylline for pest control - A Bio energetics approach". Dr. S. Mathavan.	31,800
2.	"Synthesis of Oxygen hyterocycles having insecticidal and anti - fertility properties". Dr P. V. Raman	12,000
3.	"Development of Multi - disciplinary teaching and training in Bio - Technology"	20,000
4.	"Scope for application of Androgens for intensive mono - sex culture of Tilapia mossambica". Dr. T J. Pandian	42,100
5.	"Study of morphological evolution and development of land and water resources in Tambraparni river basin". — Dr. M. Sambasiva Rao.	37,200
6.	"An analysis of marketing facilities in Tamilnadu" Dr. K. S. Gopalakrishnan	24,200
7.	"Sacred complex of the city of Madurai" Dr. L. Thara Bhai	15,000

8.	'Neucleo - cytoplasmic regulation of mitochondrio - genesis in yeast : Role of heme in mitochondrio - genesis : Dr. C Rajamanickam	40,000
9.	"Industrial peace in Indian Industries" Dr. K. Ramachandran	20,000
10	Biology Education Extension Programme	1,00,000
11.	"A study of Telegu languages and Folk songs etc, in Madurai and Ramanathapuram Districts" Dr. C. R. Sarma	20,000
12.	"A Survey, analysis and description of Minority languages in Southern Tamilnadu" Dr. M. Israel	15,000
13.	'The contribution of St. Ramalingar for National Integration with reference to Religion and Social reforms". –Dr. P. Muthuarasu.	15,000
14.	"Health care, efficiency of health care, delivery system and awareness and adoption of selected health care measure among rural population - A case study of Madurai District in Tamilnadu" Dr. E. Swaminathan	26,000

C. S I. R.

1,	Fellowship and Contingencies	2,76,998
2.	"Sequential monitoring of fungicide mutagenecity in plant system" Dr. C. B. S. R. Sharma	4,626
3.	"Identification and Characterization of Productive Cell wall antigens to Salmonellosis in mice" Dr. VR. Muthukkaruppan	61,065
4.	"Explant potentials in Coconut Cloning" Dr. D, Padmanabhan	20,000
5.	Expression of Metallothionein Genes in Yeast" Dr. J. Jayaraman	24,000
6.	"Theoretical study of electronic structure of defects and impurities of semi-conductors and metallic compounds" –Dr. K. Iyyakutty.	19,000

7.	"Newer use of alkoxymethyl ethers organic Synthesis" Dr. P. V. Raman	19,571
8.	Contingencies for Pool Officer	4,000
9.	"Gene improvement of Zymomonas mobilis of bioethanol production". - Dr. P Gunasekaran	8,330
10.	Travel Grant	7,800

I. C. M. R. :

1.	Fellowship to Thiru J. Murugesan	15,400
2.	,, Vaikundaraja	11,550
3.	,, Devandranath Sinha	8,150
4.	Tmty Mozena Banu	15,858
5.	Thiru James	8,950
6.	,, Mathumatty	2,944
7.	,, Jebakumar	10,826
8.	"Ecophysiological and Toxicological studies on the effects of biocides from bacillus species on on-target aquatic organism and insect predators of mosquito larvae" Dr. S. Mathavan	14,788
9.	"Regulation of Gene expression during cardiac hypertrophy" Dr. C. Rajamanickam	1,700
10.	"HLA in health and disease: Development of HLA Antisera and their distribution to the recognised centres in India" Dr. RM. Pitchappan	1,07,020
11.	"Nucleic acid binding proteins of Human Placenta" Dr. G. Shanmugam	24,500
12.	"Laboratory and Clinical studies on Eales' disease" Dr. VR. Muthukaruppan	1,06,14
13.	"Long term of action of sub-lethal concentration of biocide from the strain of Bacillus spharicus on the Physiology and reproduction of non-target insect predator" Dr. S. Mathavan.	14,788

I. C. S S. R :	
1. "Information Sector in Madurai City. A Piolt study" Dr. R. E Benjamin.	9,475
2. 15th All India Conference of Linguistics at Madurai	4,750
I. N. S. A :	
Bursary grant Dr R. Subbaraj.	20,000
.I C. A. R.	Rs.
"Bio-Energetics and prodution of revarine prawn macrobrachium". Dr. T. J. Pandian and Dr. S. Mathavan.	15,000
Government of India	
D. S. T. :	
1. "Bio-Mass"	2,00,000
2. "Financial support for all India coordinated project on Guayule". Dr. A. Gnanam.	40,000
3. "Molecular Cloning and sequencing the genes coding for restriction and anti-restriction proteins in E. Coli and Shigella dysenteria". Dr. K, Dharmalingam.	1,00,000
4. "Setting up a national facility of chronocubicles Complex with isolation facilities for experiments of human in the Unit of Neurobiology and Mechanisms of behaviour". Dr. M. K. Chandrashekaran-	1,90,000
5. 'Gene expression during cardiac hypertrophy Molecular Cloning of Myosin heavy chain Genes". Dr. C. Rajamanickam	1,00,000
6. Winter School research techniques in UV-B radiation effects and mechanism". Dr C. Kulandaivelu.	80,000
7. "Group Monitoring workshop on DST funded projects.	24,971
8. "Short-term training Course on structural function and genetic of Choloroplast". Dr. G. Kulandaivelu.	2,37,900

9. "Molecular Cleaning sequencing the genes coding for restriction". Dr. K. Dharmalingam. — 40,000

Depvrtment of Environment :

"An Environment impact-Western Ghats region in Tamilnadu" Dr. Kailash Paliwal — 1,74,500

Department of Non-Conventional Energy Sources :

1. "Evolution of digested Bio-Gass slury for Agricultural Chemical fertilizers". Dr. Mrs. R. Kasturi Bai. — 2,50,000

2. "Co-ordination of projects hydrogen production by Algae bactors and chloroplast hydrogen system". Dr. (Mrs.) R. Kasturi Bai — 3,90,000

3. "Region specific socio-cultural exploratory pilot surveys as Customs / tradition with positive as well as negative influences. - Dr. S. Jeyachandran. — 3,000

4. Professional for group discussion on Bio-Mass classification — 15,000

Marine Products Export Development Authority :

1. All India Co-ordinated project on survey on resource potentials of the edible frogs in India and the present rate of exploitation for export - Dr. T. J. Pandian — [illegible],64,800

2. Mass culture of fish feed organism for prawn fish and frogs - Dr. T. J. Pandian — 2,09,800

3. Design to develop Mass - culture of R. tigrina tadpoles - Dr. T. J. Pandian — 1,91,600

Botanical Survey of India :

4. District flora of Anna District Dr. D. Padmanaban — 14,797

Department of Ocean Development

5. *Marine Station - cum - Museum at Tiruchendur* ; — 8,00,000

Defence Research and Development Organisation :

6. M.Sc. Computer Science	22,00,000

Scientific Commission for continuing studies on effects of Bhopal gas leakage on Life systems :

7. Studies on toxological effects of MIC in simulated Microcosm Dr. S. Krishnaswamy	3,27,800
8. I. R. E P. training programme	15,000

Foreign Agency :

1. I. A. E A	Dr. J. Jayaraman	18,190
2. I. F. S.	Dr. A. K. Kumara Guru	1,33,211
3. I. F. S.	Dr. S. Mathavan	56,199
4. United Nations Universities. - Thailand		37,636

Others :

1. Technotran	3,500
2. H. L. R F.	92,799

Scholarships :

1. Backward Class Scholarship	97,438
2. National Merit Scholarship	8,320
3 National Loan Scholarship.	31,980
4. Kallar Reclamation Scholarship	21,210
5 Scholarship for Physically Handicapped	6,560
6. Adi - Dravidar Welfare Scholarship	1,61,307
7. National Board of Higher Mathematics	11,600

ACKNOWLEDGEMENT

During the year under report, the University has made significant progress in all spheres of its activities. Thc Syndicate wishes to express its appreciation to the students members of the Faculty, the Officers and the s'aff of the University for the excellent work done and the co-operation extended during the year.

But for the co-operation of the Management, the Principals and the staff and students of various affiliated colleges and institutions of the University, the all-round progress would not havc been possible and the Syndicate wishes to record its grateful thanks to all for their contribution towards the progress.

Madurai Kamaraj University Co-op. Printing Press, Madurai-21.